

GOLDEN VALLEY RANCH

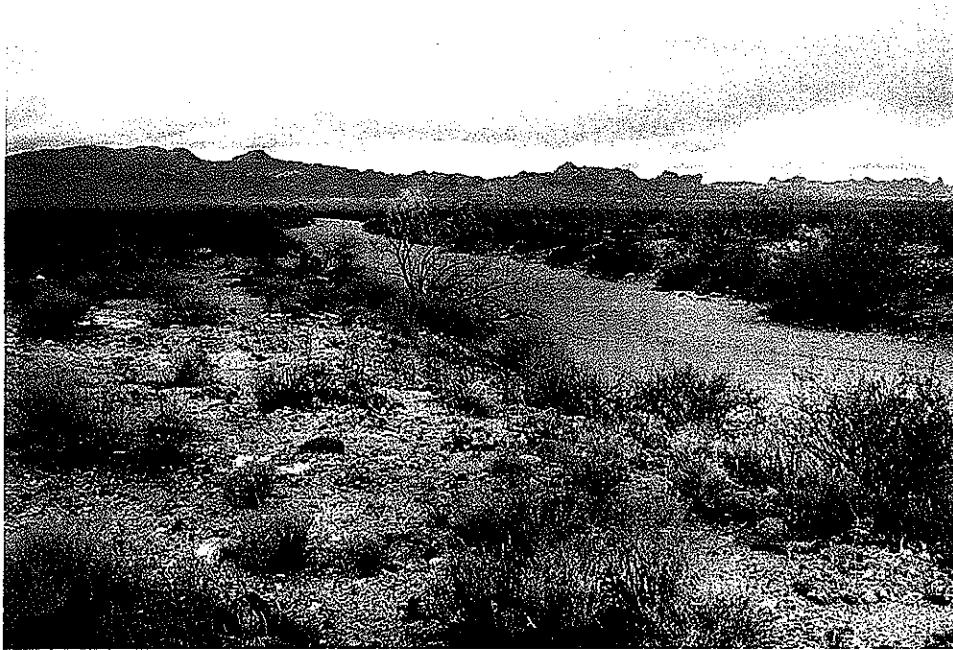


Figure 15 - W - Centennial at Holy Moses Wash center braid



Figure 16 - S - Yucca north of Hualapai alignment

GOLDEN VALLEY RANCH

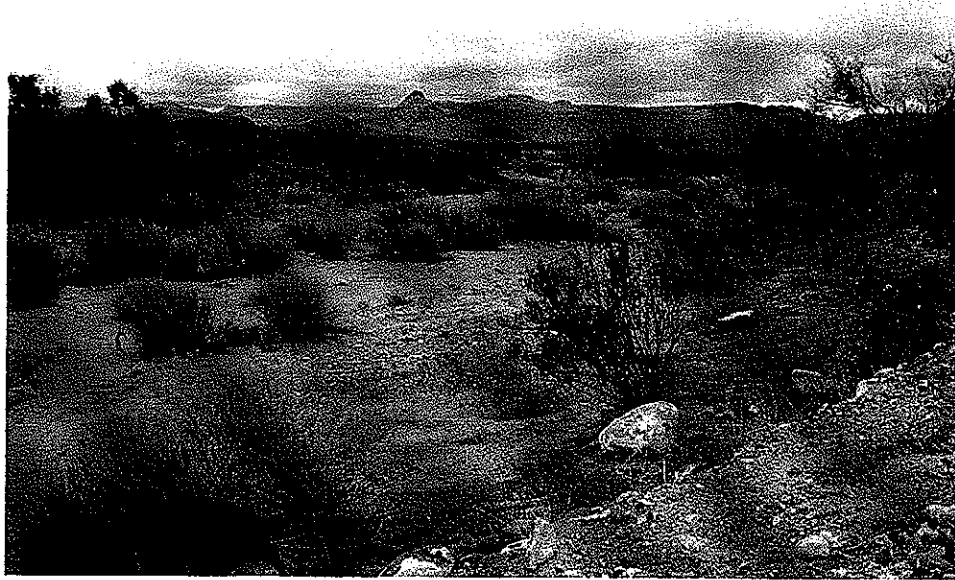


Figure 17 - E - Yucca at Holy Moses Wash



Figure 18 - Acquarius at Tampico - unnamed wash

GOLDEN VALLEY RANCH



Figure 19 - Aztec - north: near Bolsa

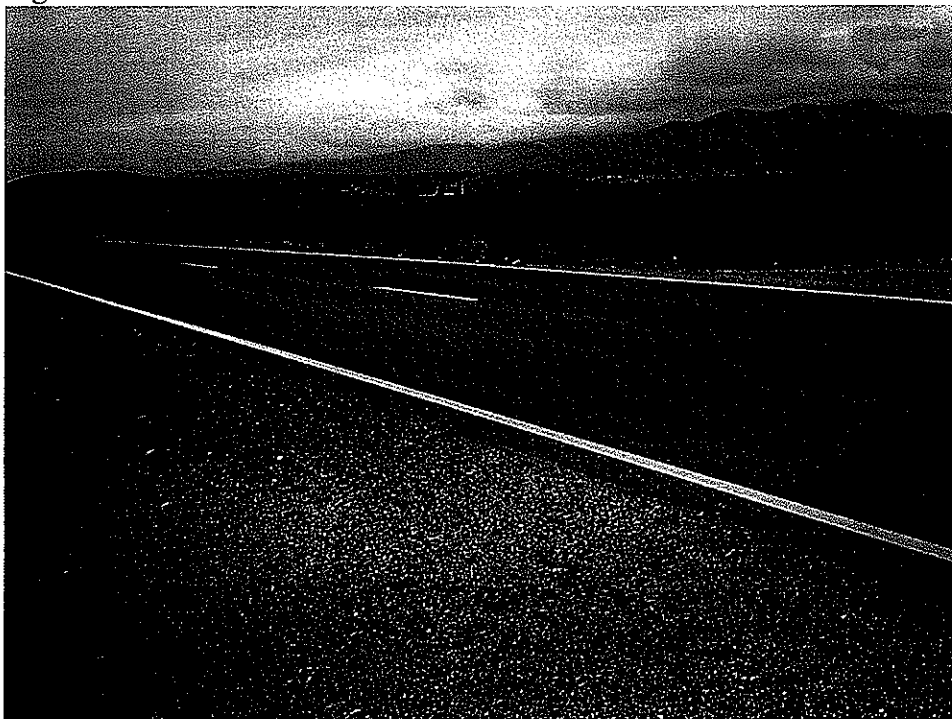


Figure 20 - Aztec - NE near Bolsa

GOLDEN VALLEY RANCH



Figure 21 - Aztec - S - near Bolsa: note "Ocean Front Ranch"



Figure 22 - Aztec at north braid of Holy Moses Wash – West

GOLDEN VALLEY RANCH



Figure 23 - Shinarump at Sacramento Wash (east braid)



Figure 24 - Shinarump at Sacramento Wash (east braid - north)

GOLDEN VALLEY RANCH



Figure 25 - N - Shinarump at Maverick



Figure 26 - S - Shinarump at Maverick

GOLDEN VALLEY RANCH



Figure 27 - N - Shinarump at Adobe



Figure 28 - S - Shinarump at Adobe

GOLDEN VALLEY RANCH



Figure 29 - S - Shinarump at Sacramento

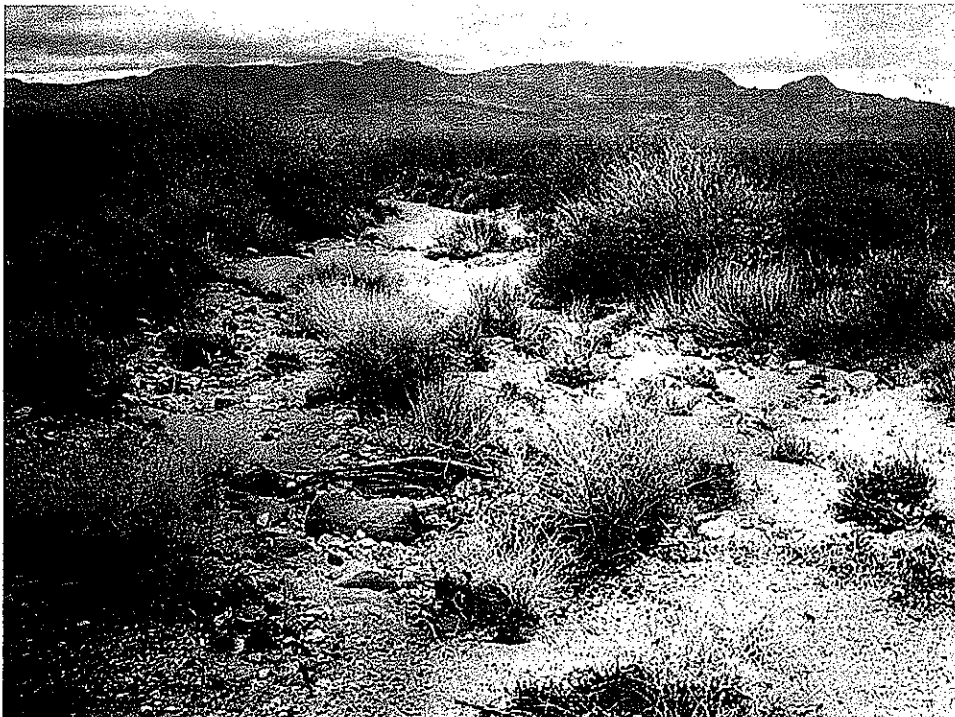


Figure 30 - Sacramento at Holy Moses center braid

GOLDEN VALLEY RANCH

APPENDIX B

HYDROLOGY – REGIONAL ANALYSIS

HEC-HMS Regional Analysis -- Results Junctions A - Q

Green-Ampt Shed Parameters

Green-Ampt Soil Association – XKSAT

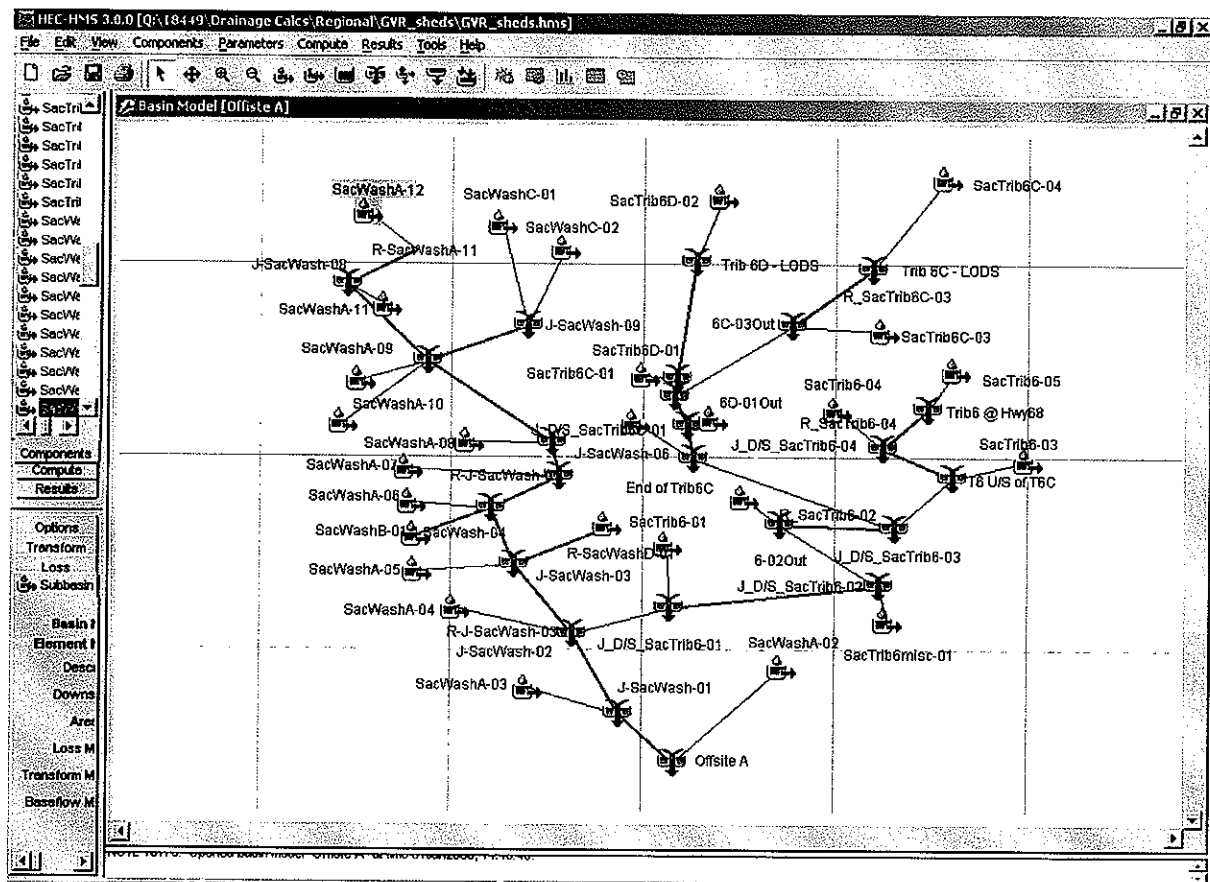
ADOT – Composit Values of PSIF & Dtheta

Precipitation Distributions

Time of Concentration Worksheet

Muskingum Routing Worksheet

Golden Valley Ranch Technical Drainage Study



Golden Valley Ranch Technical Drainage Study

Project: Offsite A 100yr-24hr
Description: Basin: Offsite A & Met: Offsite A 100yr-24hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| 6-02Out | 21.8989 | 2891.23 | 01Jan3000, 16:55 | 1221.57 |
| 6C-03Out | 0.4592 | 232.91 | 01Jan3000, 13:45 | 32.28 |
| 6D-01Out | 0.7264 | 281.14 | 01Jan3000, 14:10 | 56.5 |
| End of Trib6C | 1.6596 | 599.27 | 01Jan3000, 14:50 | 123.29 |
| J-SacWash-01 | 129.1579 | 14408.78 | 01Jan3000, 18:25 | 7494.35 |
| J-SacWash-02 | 128.7353 | 14471.55 | 01Jan3000, 18:00 | 7510.45 |
| J-SacWash-03 | 104.0491 | 12514.4 | 01Jan3000, 17:10 | 6204.22 |
| J-SacWash-04 | 86.6442 | 10742.89 | 01Jan3000, 16:45 | 5218.46 |
| J-SacWash-05 | 80.2562 | 10214.44 | 01Jan3000, 16:50 | 4849.36 |
| J-SacWash-06 | 70.4152 | 9328.6 | 01Jan3000, 16:45 | 4248.44 |
| J-SacWash-07 | 65.2222 | 8726.4 | 01Jan3000, 16:10 | 3888.13 |
| J-SacWash-08 | 32.1654 | 5645.11 | 01Jan3000, 15:40 | 2076.54 |
| J-SacWash-09 | 20.0291 | 2756.46 | 01Jan3000, 15:45 | 1051.81 |
| J_D/S_SacTrib6-01 | 22.561 | 2950.55 | 01Jan3000, 16:55 | 1269.9 |
| J_D/S_SacTrib6-02 | 22.5341 | 2951.55 | 01Jan3000, 16:50 | 1270.03 |
| J_D/S_SacTrib6-03 | 21.8473 | 2892.44 | 01Jan3000, 16:50 | 1220.06 |
| J_D/S_SacTrib6-04 | 19.9542 | 2717.28 | 01Jan3000, 16:35 | 1087.23 |
| J_D/S_SacTrib6C-01 | 1.3683 | 533.6 | 01Jan3000, 14:25 | 102.81 |
| J_D/S_SacTrib6C-02 | 1.1856 | 488.47 | 01Jan3000, 14:00 | 88.78 |
| Offsite A | 133.9649 | 13977.16 | 01Jan3000, 20:25 | 7401.64 |
| R-J-SacWash-01 | 129.1579 | 13960.81 | 01Jan3000, 20:25 | 7116.5 |
| R-J-SacWash-02 | 128.7353 | 14405.37 | 01Jan3000, 18:25 | 7469.64 |
| R-J-SacWash-03 | 104.0491 | 12257.85 | 01Jan3000, 18:30 | 6101.62 |
| R-J-SacWash-04 | 86.6442 | 10651.35 | 01Jan3000, 17:30 | 5183.79 |
| R-J-SacWash-05 | 80.2562 | 10154.5 | 01Jan3000, 17:05 | 4838.66 |
| R-J-SacWash-06 | 70.4152 | 9264.99 | 01Jan3000, 17:05 | 4236.63 |
| R-J-SacWash-07 | 65.2222 | 8668.12 | 01Jan3000, 16:50 | 3869.92 |
| R-J-SacWash-08 | 32.1654 | 5558.79 | 01Jan3000, 16:00 | 2074.5 |
| R-J-SacWash-09 | 20.0291 | 2500.74 | 01Jan3000, 17:55 | 1026.7 |
| R-SacWashA-11 | 18.2356 | 2995.6 | 01Jan3000, 17:05 | 1061.19 |
| R-SacWashB-01 | 5.3076 | 1749.36 | 01Jan3000, 15:25 | 314.36 |
| R-SacWashD-01 | 14.1515 | 1796.18 | 01Jan3000, 16:40 | 791.4 |
| R_SacTrib6-01 | 22.5341 | 2950.55 | 01Jan3000, 16:55 | 1268.63 |
| R_SacTrib6-02 | 21.8473 | 2891.23 | 01Jan3000, 16:55 | 1219.02 |
| R_SacTrib6-03 | 19.9542 | 2715.16 | 01Jan3000, 16:55 | 1084.14 |
| R_SacTrib6-04 | 19.5342 | 2703.39 | 01Jan3000, 16:35 | 1065.09 |
| R_SacTrib6C-01 | 1.3683 | 532.16 | 01Jan3000, 14:50 | 102.87 |
| R_SacTrib6C-02 | 1.1856 | 486.74 | 01Jan3000, 14:30 | 88.87 |
| R_SacTrib6C-03 | 0.2518 | 119.2 | 01Jan3000, 14:00 | 17.74 |
| R_SacTrib6D-01 | 0.4351 | 170.95 | 01Jan3000, 14:15 | 33.85 |
| SacTrib6-01 | 0.0269 | 16.87 | 01Jan3000, 13:20 | 1.27 |
| SacTrib6-02 | 0.0516 | 41.92 | 01Jan3000, 13:20 | 2.55 |
| SacTrib6-03 | 0.2335 | 87.51 | 01Jan3000, 13:50 | 12.63 |
| SacTrib6-04 | 0.42 | 155.84 | 01Jan3000, 13:55 | 22.14 |
| SacTrib6-05 | 19.5342 | 2703.87 | 01Jan3000, 16:20 | 1068 |
| SacTrib6C-01 | 0.2913 | 136.08 | 01Jan3000, 13:50 | 20.43 |
| SacTrib6C-02 | 0.1827 | 139.36 | 01Jan3000, 13:35 | 13.94 |
| SacTrib6C-03 | 0.2074 | 145.45 | 01Jan3000, 13:35 | 14.54 |

**Golden Valley Ranch
Technical Drainage Study**

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| SacTrib6C-04 | 0.2518 | 120.05 | 01Jan3000, 13:50 | 17.73 |
| SacTrib6D-01 | 0.2913 | 116.27 | 01Jan3000, 14:00 | 22.65 |
| SacTrib6D-02 | 0.4351 | 171.61 | 01Jan3000, 14:05 | 33.83 |
| SacTrib6misc-01 | 0.6352 | 206.34 | 01Jan3000, 14:20 | 48.46 |
| SacWashA-02 | 4.807 | 1327.99 | 01Jan3000, 14:50 | 285.14 |
| SacWashA-03 | 0.4226 | 163.44 | 01Jan3000, 14:00 | 24.71 |
| SacWashA-04 | 2.1252 | 664.09 | 01Jan3000, 14:35 | 138.93 |
| SacWashA-05 | 3.2534 | 1031.98 | 01Jan3000, 14:45 | 229.03 |
| SacWashA-06 | 1.0804 | 381.03 | 01Jan3000, 14:15 | 65.44 |
| SacWashA-07 | 9.841 | 2391.58 | 01Jan3000, 15:15 | 612.73 |
| SacWashA-08 | 5.193 | 1322.07 | 01Jan3000, 15:10 | 378.52 |
| SacWashA-09 | 10.2545 | 1848.39 | 01Jan3000, 15:40 | 622.68 |
| SacWashA-10 | 2.7732 | 764.85 | 01Jan3000, 14:40 | 164.25 |
| SacWashA-11 | 13.9298 | 4034.8 | 01Jan3000, 15:15 | 1015.36 |
| SacWashA-12 | 18.2356 | 3102.49 | 01Jan3000, 15:55 | 1065.73 |
| SacWashB-01 | 5.3076 | 2078.47 | 01Jan3000, 14:15 | 314.36 |
| SacWashC-01 | 10.3994 | 1367.37 | 01Jan3000, 16:00 | 556.79 |
| SacWashC-02 | 9.6297 | 1416.54 | 01Jan3000, 15:35 | 495.01 |
| SacWashD-01 | 14.1515 | 1809.07 | 01Jan3000, 16:25 | 794.83 |
| T6 U/S of T6C | 20.1877 | 2721.56 | 01Jan3000, 16:55 | 1096.76 |
| Trib 6C - LODS | 0.2518 | 120.05 | 01Jan3000, 13:50 | 17.73 |
| Trib 6D - LODS | 0.4351 | 171.61 | 01Jan3000, 14:05 | 33.83 |
| Trib6 @ Hwy68 | 19.5342 | 2703.87 | 01Jan3000, 16:20 | 1068 |

Golden Valley Ranch Technical Drainage Study

Project: Offsite B 100yr-6hr
Description: Basin: Offsite B & Met: Offsite B 100yr-6hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| 13MileWashE-01 | 1.0617 | 387.04 | 01Jan3000, 06:25 | 83.43 |

Project: Offsite F 100yr-6hr
Description: Basin: Offsite F & Met: Offsite F 100yr-6hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| 13MileWashCmisc-01 | 13.8253 | 5723.24 | 01Jan3000, 05:50 | 619.81 |

Project: Offsite G 100yr-6hr
Description: Basin: Offsite G & Met: Offsite G 100yr-6hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| 13MileWashE-03 | 0.357 | 227.31 | 01Jan3000, 05:40 | 22.28 |

Project: Offsite J 100yr-6hr
Description: Basin: Offsite J & Met: Offsite J 100yr-6hr & Control: Control 1

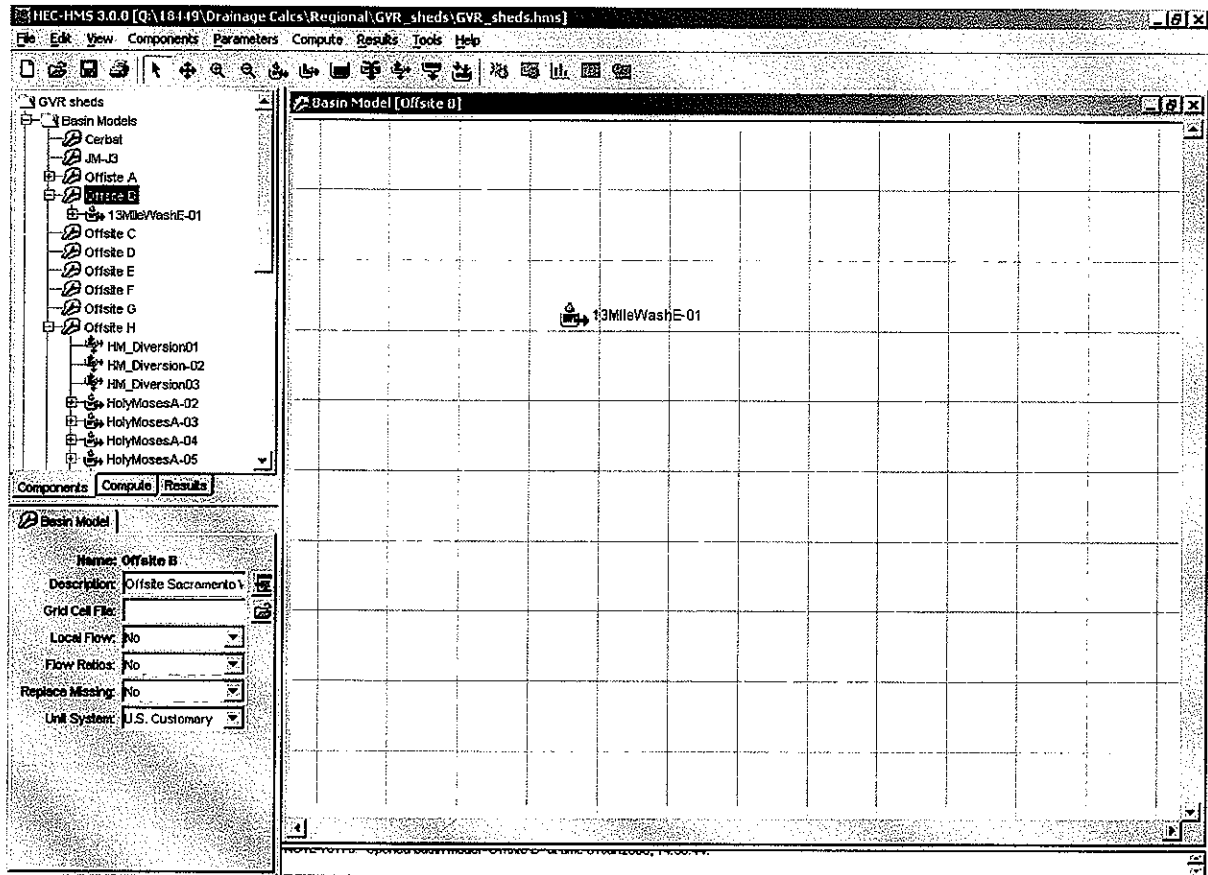
| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| SacWashE-01 | 2.0957 | 1123.25 | 01Jan3000, 06:10 | 157.7 |

Project: Offsite K 100yr-6hr
Description: Basin: Offsite K & Met: Offsite K 100yr-6hr & Control: Control 1

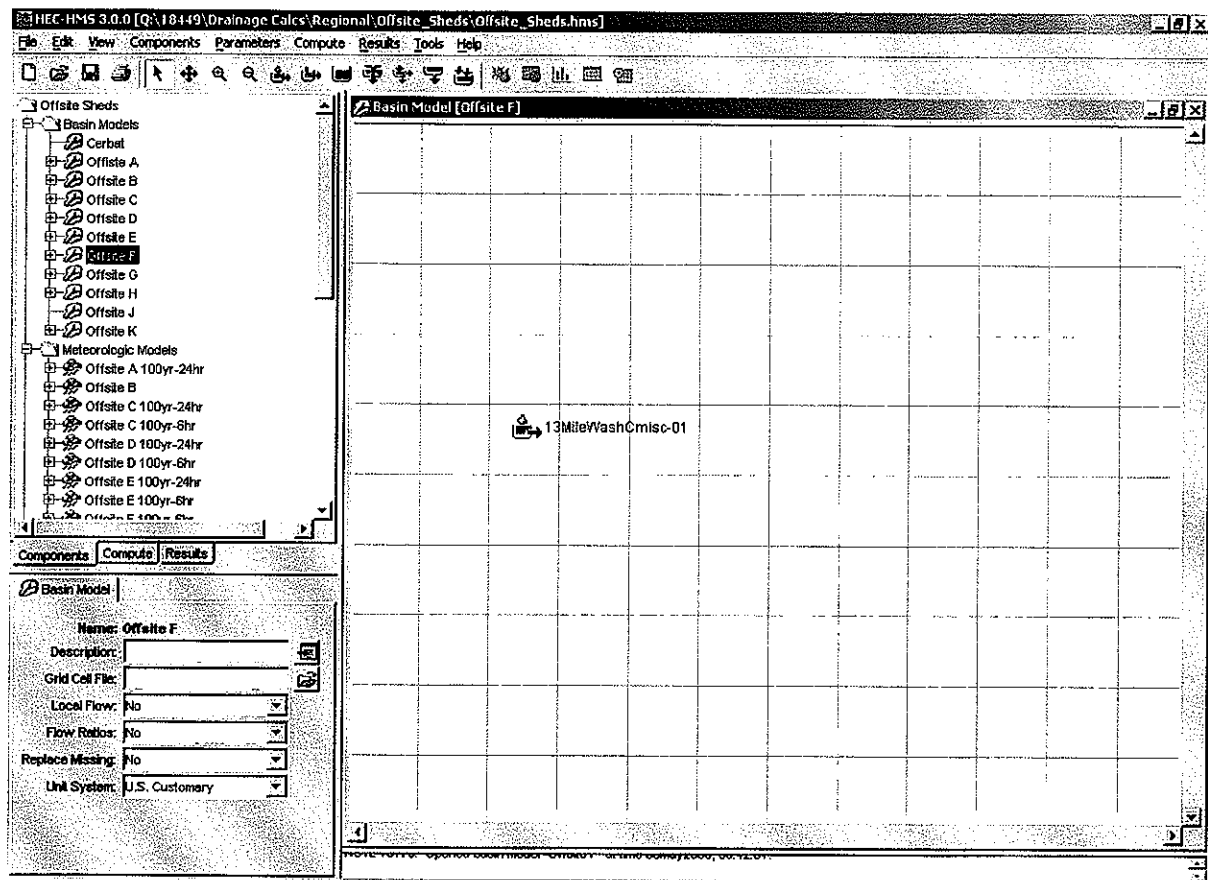
| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|----------------------|--------------------------|-------------------------|------------------|----------------|
| Offsite Diverted -01 | 0.1161 | 143.01 | 01Jan3000, 05:20 | 8.55 |

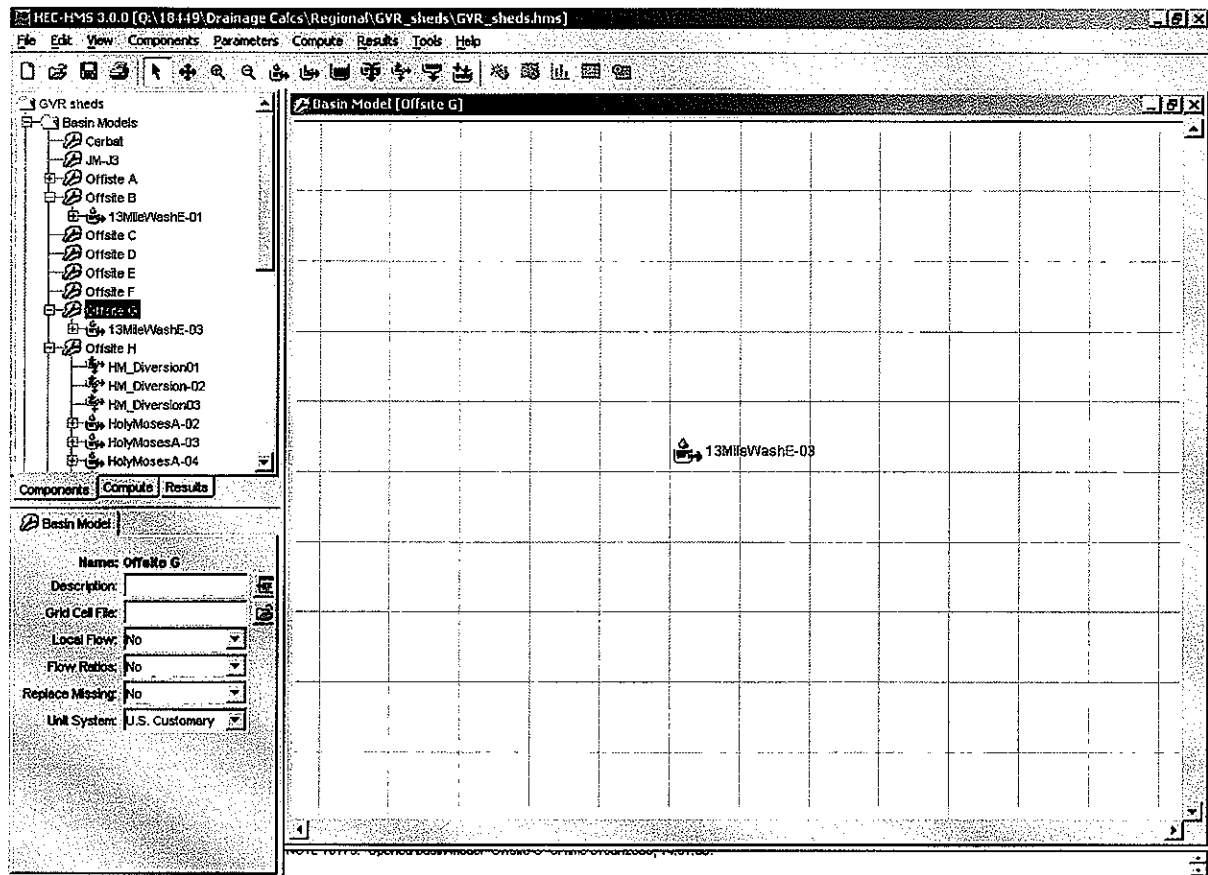
Project: Offsite L 100yr-6hr
Description: Basin: Offsite L & Met: Offsite L 100yr-6hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|---------------------|--------------------------|-------------------------|------------------|----------------|
| Offsite Diverted-02 | 1.1335 | 728.27 | 01Jan3000, 05:50 | 73.99 |

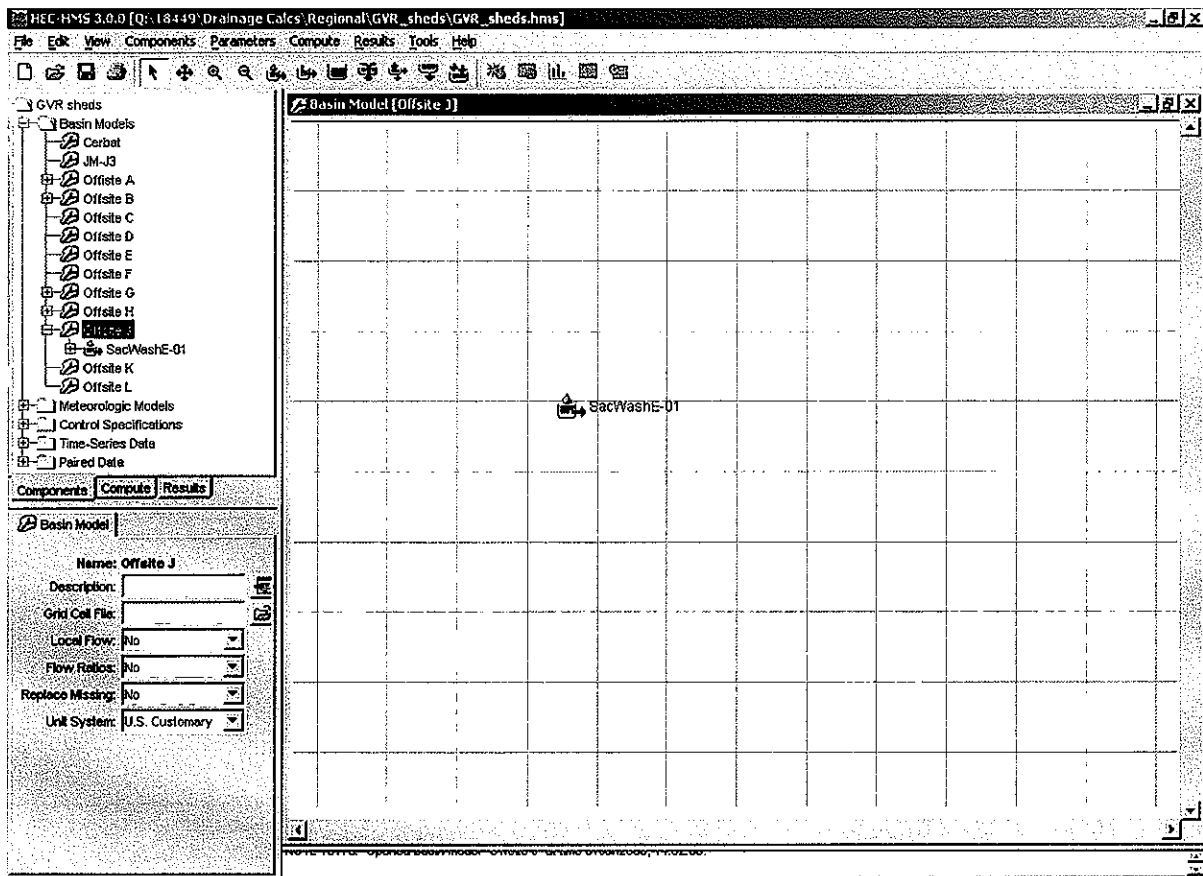
Golden Valley Ranch
Technical Drainage Study

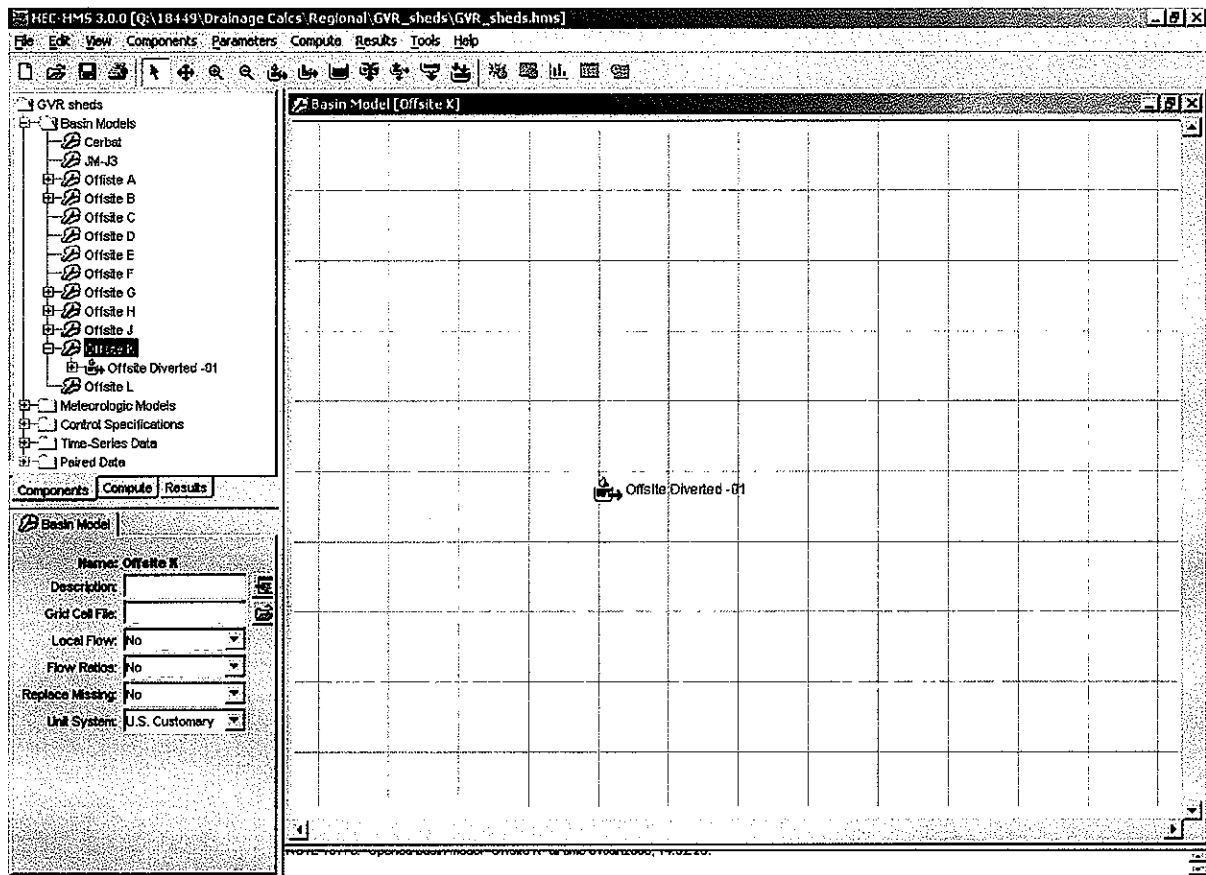
Golden Valley Ranch Technical Drainage Study

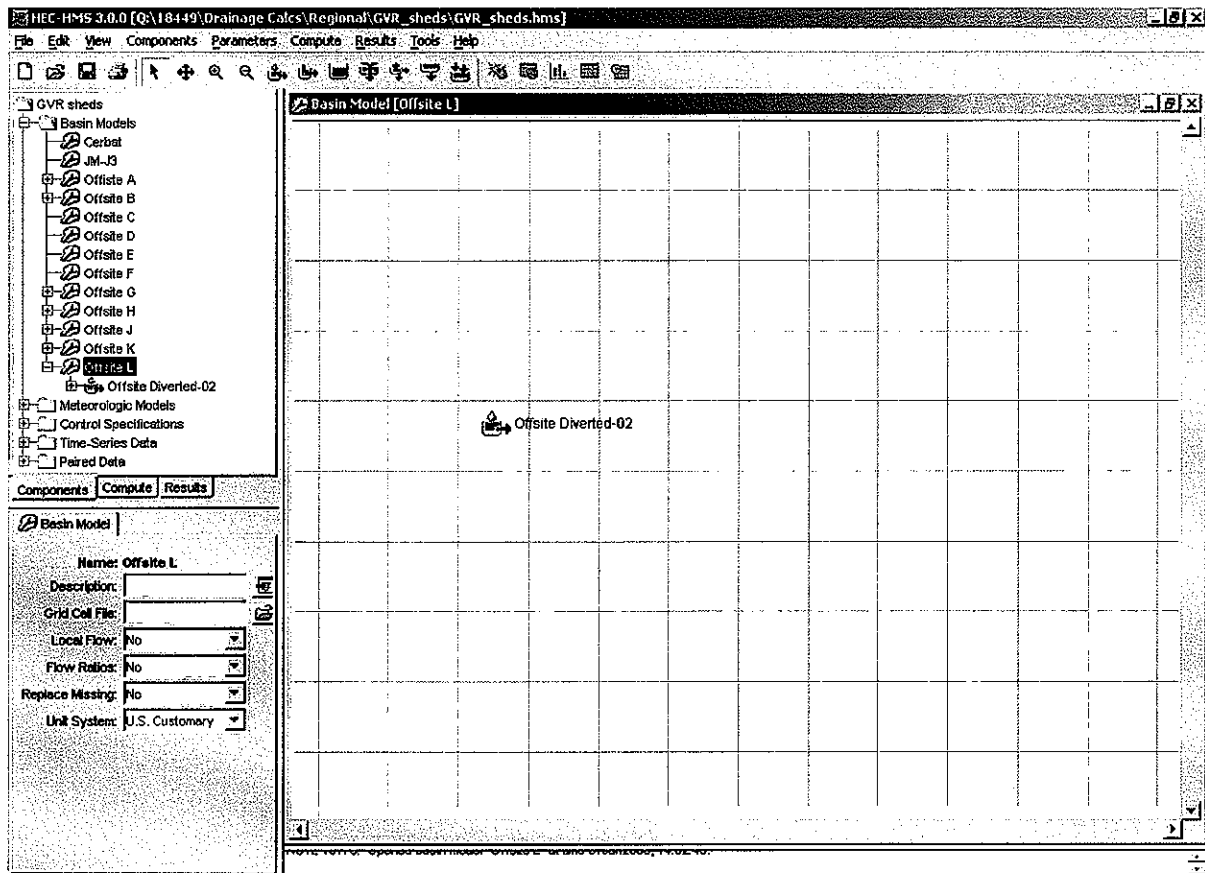


Golden Valley Ranch
Technical Drainage Study

Golden Valley Ranch Technical Drainage Study



Golden Valley Ranch
Technical Drainage Study

Golden Valley Ranch
Technical Drainage Study



Golden Valley Ranch Technical Drainage Study

Project: Offsite C 100yr-24hr
Description: Basin: Offsite C & Met: Offsite C 100yr-24hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| 13 U/S of C | 21.152 | 4510.07 | 01Jan3000, 16:00 | 1276.76 |
| 13MileWash-01 | 0.0215 | 14.93 | 01Jan3000, 13:20 | 1.14 |
| 13MileWash-02 | 0.7827 | 185.84 | 01Jan3000, 14:30 | 46.97 |
| 13MileWash-03 | 1.5852 | 332.01 | 01Jan3000, 14:45 | 90.05 |
| 13MileWash-04 | 4.2919 | 920.76 | 01Jan3000, 14:45 | 229.9 |
| 13MileWashA-01 | 1.2028 | 248.8 | 01Jan3000, 14:40 | 71.22 |
| 13MileWashA-02 | 4.8114 | 1028.78 | 01Jan3000, 15:00 | 282.8 |
| 13MileWashB-01 | 0.4188 | 112.07 | 01Jan3000, 14:10 | 23.05 |
| 13MileWashB-02 | 0.057 | 43.21 | 01Jan3000, 13:25 | 3.2 |
| 13MileWashB-03 | 0.3592 | 259.9 | 01Jan3000, 13:20 | 21.56 |
| 13MileWashB-04 | 0.0449 | 19.05 | 01Jan3000, 13:45 | 2.16 |
| 13MileWashB-05 | 6.4185 | 1430.5 | 01Jan3000, 14:55 | 360.23 |
| 13MileWashB-1A-01 | 0.5987 | 226.13 | 01Jan3000, 14:00 | 35.91 |
| 13MileWashB-1A-02 | 0.1641 | 78.87 | 01Jan3000, 13:40 | 10.84 |
| 13MileWashB-1A-03 | 0.1314 | 71.79 | 01Jan3000, 13:40 | 9.25 |
| 13MileWashB-1B-01 | 0.0439 | 46.12 | 01Jan3000, 13:20 | 2.83 |
| 13MileWashB-1B-02 | 0.0675 | 59.43 | 01Jan3000, 13:25 | 4.56 |
| 13MileWashB-1C-01 | 0.1147 | 58.28 | 01Jan3000, 13:35 | 7.8 |
| 13MileWashB-1C-02 | 0.0593 | 56.82 | 01Jan3000, 13:20 | 3.32 |
| 13MileWashC-01 | 0.0375 | 20.4 | 01Jan3000, 13:25 | 1.81 |
| 13MileWashC-02 | 1.7953 | 522.46 | 01Jan3000, 14:30 | 107.75 |
| 13MileWashC-03 | 1.1533 | 300.26 | 01Jan3000, 14:25 | 67.82 |
| 13MileWashC-04 | 5.3401 | 1272 | 01Jan3000, 14:40 | 276.95 |
| 13MileWashCmisc-01 | 13.8253 | 2920.45 | 01Jan3000, 15:15 | 736.34 |
| 13MileWashCmisc-02 | 11.6593 | 2699.91 | 01Jan3000, 15:05 | 642.11 |
| 13mile-01-out | 54.9843 | 10581.1 | 01Jan3000, 15:55 | 3040.17 |
| 2900ft D/S of SR68 | 10.083 | 1527.35 | 01Jan3000, 15:45 | 555.54 |
| CebatTrib1A-01 | 0.5285 | 307.86 | 01Jan3000, 13:50 | 35.69 |
| CebatTrib1A-02 | 0.8467 | 220.13 | 01Jan3000, 14:20 | 49.79 |
| Cerbat-01 | 0.9269 | 336.59 | 01Jan3000, 14:10 | 56.8 |
| Cerbat-02 | 3.6691 | 701.33 | 01Jan3000, 15:15 | 215.48 |
| Cerbat-03 | 10.083 | 1527.35 | 01Jan3000, 15:45 | 555.54 |
| Conf-B1-B-03-out | 6.5748 | 1435.85 | 01Jan3000, 15:15 | 369.92 |
| Conf-B1B-01-out | 0.1114 | 94.63 | 01Jan3000, 13:25 | 7.39 |
| Confl -13Mil-C | 54.9628 | 10595.14 | 01Jan3000, 15:50 | 3038.69 |
| Confl A-B | 12.9482 | 2644.56 | 01Jan3000, 15:35 | 745.54 |
| Confl with 13Mile | 16.0542 | 2110.21 | 01Jan3000, 16:45 | 904.74 |
| Confl-B-wash3 | 20.3693 | 4443.17 | 01Jan3000, 15:40 | 1230.35 |
| ConflB02-B1-A | 14.0734 | 2781.77 | 01Jan3000, 15:35 | 815.91 |
| Diversion_C | 5.3401 | 676.48 | 01Jan3000, 14:40 | 205.9 |
| EndWashC | 33.8108 | 6229.9 | 01Jan3000, 15:25 | 1761.92 |
| J_U/S_CerTrb1A-01 | 0.8467 | 220.13 | 01Jan3000, 14:20 | 49.79 |
| J_U/S_Cerb-01 | 15.1273 | 2068.9 | 01Jan3000, 16:20 | 851.71 |
| Main U/S of Trib1A | 13.7521 | 1947.19 | 01Jan3000, 16:30 | 766.18 |
| Offsite C | 71.0385 | 12504.16 | 01Jan3000, 16:00 | 3944.91 |
| R_13Mile-01 | 54.9628 | 10580.89 | 01Jan3000, 15:55 | 3039.03 |
| R_13Mile-02 | 20.3693 | 4416.65 | 01Jan3000, 16:05 | 1229.79 |
| R_13Mile-03 | 4.2919 | 1507.88 | 01Jan3000, 15:30 | 301.33 |

**Golden Valley Ranch
Technical Drainage Study**

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|---------------------|--------------------------|-------------------------|------------------|----------------|
| R_13MileWashA-01 | 4.8114 | 1026.77 | 01Jan3000, 15:35 | 282.84 |
| R_13MileWashB-01 | 14.0734 | 2777.46 | 01Jan3000, 15:55 | 815.92 |
| R_13MileWashB-02 | 12.9482 | 2642.5 | 01Jan3000, 15:40 | 745.54 |
| R_13MileWashB-03 | 6.5748 | 1433.93 | 01Jan3000, 15:40 | 369.92 |
| R_13MileWashB-04 | 6.4185 | 1429.37 | 01Jan3000, 15:15 | 360.37 |
| R_13MileWashB-1A-01 | 0.4695 | 205.9 | 01Jan3000, 14:15 | 31.27 |
| R_13MileWashB-1A-02 | 0.1314 | 71.58 | 01Jan3000, 14:05 | 9.26 |
| R_13MileWashB-1B-01 | 0.0675 | 58.7 | 01Jan3000, 13:30 | 4.56 |
| R_13MileWashB-1C-01 | 0.0593 | 55.92 | 01Jan3000, 13:30 | 3.33 |
| R_13MileWashC-01 | 33.7733 | 6228.55 | 01Jan3000, 15:25 | 1760.11 |
| R_13MileWashC-02 | 18.1527 | 3316.83 | 01Jan3000, 15:45 | 915.95 |
| R_13MileWashC-03 | 5.3401 | 675.97 | 01Jan3000, 16:10 | 206.19 |
| R_CerbTrib1A-01 | 0.8467 | 219.6 | 01Jan3000, 14:55 | 49.83 |
| R_Cerbat-01 | 15.1273 | 2067.62 | 01Jan3000, 16:50 | 847.94 |
| R_Cerbat-02 | 10.083 | 1524.37 | 01Jan3000, 16:45 | 550.7 |
| Trib1A U/S of Main | 1.3752 | 343.89 | 01Jan3000, 14:00 | 85.53 |
| Wash B @ SR 68 | 6.4185 | 1430.5 | 01Jan3000, 14:55 | 360.23 |
| Wash C @SR68 | 5.3401 | 1272 | 01Jan3000, 14:40 | 276.95 |
| Wash-03-out | 5.8771 | 1761.04 | 01Jan3000, 15:25 | 391.38 |
| WashA-01-out | 6.0142 | 1211.64 | 01Jan3000, 15:30 | 354.06 |
| WashA@SR68 | 4.8114 | 1028.78 | 01Jan3000, 15:00 | 282.8 |
| WashB-01-out | 14.4922 | 2819.9 | 01Jan3000, 15:55 | 838.97 |
| WashB-02-out | 13.0052 | 2643.09 | 01Jan3000, 15:40 | 748.74 |
| WashB-04-out | 6.4634 | 1432.74 | 01Jan3000, 15:15 | 362.53 |
| WashB-1A-1-out | 1.0682 | 422.58 | 01Jan3000, 14:05 | 67.17 |
| WashB-1A@SR68 | 0.1314 | 71.79 | 01Jan3000, 13:40 | 9.25 |
| WashC-02-out | 19.948 | 3566.47 | 01Jan3000, 15:45 | 1023.7 |
| WashC-03-out | 6.4934 | 802.9 | 01Jan3000, 15:45 | 274.02 |
| WashCmisc01-out | 18.1527 | 3352.91 | 01Jan3000, 15:20 | 916.13 |
| WshB-03-out | 6.934 | 1442.18 | 01Jan3000, 15:40 | 391.47 |
| WshB-1B-01-out | 0.0675 | 59.43 | 01Jan3000, 13:25 | 4.56 |
| WshB-1C-01 | 0.174 | 111.64 | 01Jan3000, 13:30 | 11.13 |
| WshB-1C-01-out | 0.0593 | 56.82 | 01Jan3000, 13:20 | 3.32 |
| WshB1-C1-A02-out | 0.4695 | 206.2 | 01Jan3000, 13:50 | 31.22 |
| WshB1A-02-OUT | 0.2955 | 134.95 | 01Jan3000, 14:00 | 20.09 |
| WshC-01-out | 33.7733 | 6247.39 | 01Jan3000, 15:40 | 1760.04 |
| wash-04@SR-out | 4.2919 | 1515.59 | 01Jan3000, 14:45 | 300.95 |

Golden Valley Ranch Technical Drainage Study

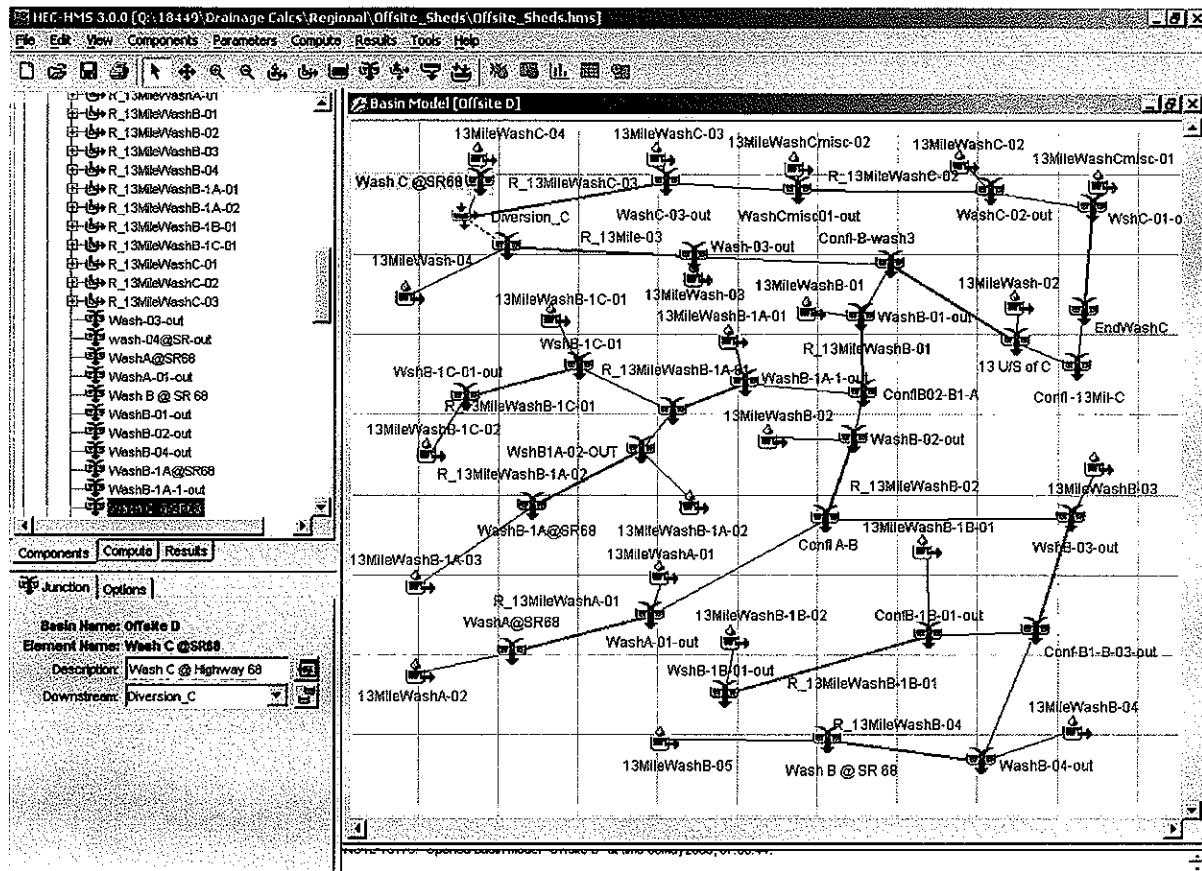
Project: Basin: Offsite C & Met: Offsite C 100yr-6hr & Control: Control 1
 Description: Basin: Offsite C & Met: Offsite C 100yr-6hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| 13 U/S of C | 21.152 | 2194.93 | 01Jan3000, 08:15 | 670.01 |
| 13MileWash-01 | 0.0215 | 6.01 | 01Jan3000, 05:25 | 0.56 |
| 13MileWash-02 | 0.7827 | 106.39 | 01Jan3000, 06:30 | 27.98 |
| 13MileWash-03 | 1.5852 | 177.36 | 01Jan3000, 06:45 | 49.25 |
| 13MileWash-04 | 4.2919 | 450.9 | 01Jan3000, 06:50 | 114.85 |
| 13MileWashA-01 | 1.2028 | 141.15 | 01Jan3000, 06:45 | 41.68 |
| 13MileWashA-02 | 4.8114 | 580.88 | 01Jan3000, 07:05 | 162.77 |
| 13MileWashB-01 | 0.4188 | 56 | 01Jan3000, 06:10 | 12.06 |
| 13MileWashB-02 | 0.057 | 18.94 | 01Jan3000, 05:30 | 1.72 |
| 13MileWashB-03 | 0.3592 | 121.45 | 01Jan3000, 05:30 | 12.84 |
| 13MileWashB-04 | 0.0449 | 6.8 | 01Jan3000, 05:50 | 0.81 |
| 13MileWashB-05 | 6.4185 | 757.08 | 01Jan3000, 07:00 | 193.77 |
| 13MileWashB-1A-01 | 0.5987 | 125.16 | 01Jan3000, 06:05 | 21.37 |
| 13MileWashB-1A-02 | 0.1641 | 46.58 | 01Jan3000, 05:50 | 7.5 |
| 13MileWashB-1A-03 | 0.1314 | 44.05 | 01Jan3000, 05:45 | 6.84 |
| 13MileWashB-1B-01 | 0.0439 | 21.78 | 01Jan3000, 05:25 | 1.89 |
| 13MileWashB-1B-02 | 0.0675 | 31.27 | 01Jan3000, 05:30 | 3.24 |
| 13MileWashB-1C-01 | 0.1147 | 34.85 | 01Jan3000, 05:45 | 5.58 |
| 13MileWashB-1C-02 | 0.0593 | 23.35 | 01Jan3000, 05:25 | 1.79 |
| 13MileWashC-01 | 0.0375 | 6.95 | 01Jan3000, 05:30 | 0.69 |
| 13MileWashC-02 | 1.7953 | 299.44 | 01Jan3000, 06:35 | 64.18 |
| 13MileWashC-03 | 1.1533 | 166.63 | 01Jan3000, 06:30 | 39.09 |
| 13MileWashC-04 | 5.3401 | 574.38 | 01Jan3000, 06:45 | 127.02 |
| 13MileWashCmisc-01 | 13.8253 | 1424.95 | 01Jan3000, 07:20 | 362.9 |
| 13MileWashCmisc-02 | 11.6593 | 1396.76 | 01Jan3000, 07:05 | 336.4 |
| 13mile-01-out | 54.9843 | 5121.8 | 01Jan3000, 08:00 | 1597.1 |
| 2900ft D/S of SR68 | 10.083 | 805.01 | 01Jan3000, 07:45 | 298.24 |
| CebatTrib1A-01 | 0.5285 | 187.63 | 01Jan3000, 05:55 | 25.36 |
| CebatTrib1A-02 | 0.8467 | 121.88 | 01Jan3000, 06:25 | 28.7 |
| Cerbat-01 | 0.9269 | 195.01 | 01Jan3000, 06:15 | 35 |
| Cerbat-02 | 3.6691 | 397.32 | 01Jan3000, 07:15 | 124.13 |
| Cerbat-03 | 10.083 | 805.01 | 01Jan3000, 07:45 | 298.24 |
| Conf-B1-B-03-out | 6.5748 | 759.72 | 01Jan3000, 07:25 | 199.79 |
| ConfB-1B-01-out | 0.1114 | 50.07 | 01Jan3000, 05:35 | 5.13 |
| Confl -13Mil-C | 54.9628 | 5125.11 | 01Jan3000, 07:55 | 1596.61 |
| Confl A-B | 12.9482 | 1426.8 | 01Jan3000, 07:40 | 417.01 |
| Confl with 13Mile | 16.0542 | 1163.31 | 01Jan3000, 08:45 | 511.55 |
| Confl-B-wash3 | 20.3693 | 2146.16 | 01Jan3000, 07:45 | 642.06 |
| ConflB02-B1-A | 14.0734 | 1528.83 | 01Jan3000, 07:35 | 461.86 |
| Diversion_C | 5.3401 | 527.3 | 01Jan3000, 06:45 | 123.28 |
| EndWashC | 33.8108 | 3210.87 | 01Jan3000, 07:30 | 926.6 |
| J_U/S_CerTrb1A-01 | 0.8467 | 121.88 | 01Jan3000, 06:25 | 28.7 |
| J_U/S_Cerb-01 | 15.1273 | 1134.2 | 01Jan3000, 08:15 | 476.52 |
| Main U/S of Trib1A | 13.7521 | 1053.41 | 01Jan3000, 08:30 | 422.43 |
| Offsite C | 71.0385 | 6229.22 | 01Jan3000, 08:05 | 2108.66 |
| R_13Mile-01 | 54.9628 | 5121.7 | 01Jan3000, 08:00 | 1596.55 |
| R_13Mile-02 | 20.3693 | 2142.25 | 01Jan3000, 08:15 | 642.03 |
| R_13Mile-03 | 4.2919 | 496.03 | 01Jan3000, 07:30 | 118.76 |

**Golden Valley Ranch
Technical Drainage Study**

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|---------------------|--------------------------|-------------------------|------------------|----------------|
| R_13MileWashA-01 | 4.8114 | 579.19 | 01Jan3000, 07:30 | 162.77 |
| R_13MileWashB-01 | 14.0734 | 1527.65 | 01Jan3000, 07:55 | 461.99 |
| R_13MileWashB-02 | 12.9482 | 1426.11 | 01Jan3000, 07:40 | 417.01 |
| R_13MileWashB-03 | 6.5748 | 757.78 | 01Jan3000, 07:50 | 199.72 |
| R_13MileWashB-04 | 6.4185 | 756.09 | 01Jan3000, 07:25 | 193.85 |
| R_13MileWashB-1A-01 | 0.4695 | 128.15 | 01Jan3000, 06:25 | 21.75 |
| R_13MileWashB-1A-02 | 0.1314 | 43.84 | 01Jan3000, 06:20 | 6.86 |
| R_13MileWashB-1B-01 | 0.0675 | 31.14 | 01Jan3000, 05:40 | 3.24 |
| R_13MileWashB-1C-01 | 0.0593 | 23.24 | 01Jan3000, 05:35 | 1.79 |
| R_13MileWashC-01 | 33.7733 | 3210.37 | 01Jan3000, 07:30 | 925.91 |
| R_13MileWashC-02 | 18.1527 | 1615.42 | 01Jan3000, 08:10 | 498.89 |
| R_13MileWashC-03 | 5.3401 | 525.68 | 01Jan3000, 08:20 | 123.43 |
| R_CerbTrib1A-01 | 0.8467 | 121.57 | 01Jan3000, 07:05 | 28.73 |
| R_Cerbat-01 | 15.1273 | 1133.67 | 01Jan3000, 08:50 | 476.55 |
| R_Cerbat-02 | 10.083 | 803.25 | 01Jan3000, 08:45 | 298.3 |
| Trib1A U/S of Main | 1.3752 | 210.12 | 01Jan3000, 06:30 | 54.09 |
| Wash B @ SR 68 | 6.4185 | 757.08 | 01Jan3000, 07:00 | 193.77 |
| Wash C @SR68 | 5.3401 | 574.38 | 01Jan3000, 06:45 | 127.02 |
| Wash-03-out | 5.8771 | 636.81 | 01Jan3000, 07:30 | 168.01 |
| WashA-01-out | 6.0142 | 696.65 | 01Jan3000, 07:25 | 204.45 |
| WashA@SR68 | 4.8114 | 580.88 | 01Jan3000, 07:05 | 162.77 |
| WashB-01-out | 14.4922 | 1550.87 | 01Jan3000, 07:55 | 474.05 |
| WashB-02-out | 13.0052 | 1426.5 | 01Jan3000, 07:40 | 418.73 |
| WashB-04-out | 6.4634 | 757.19 | 01Jan3000, 07:25 | 194.66 |
| WashB-1A-1-out | 1.0682 | 244.04 | 01Jan3000, 06:20 | 43.12 |
| WashB-1A@SR68 | 0.1314 | 44.05 | 01Jan3000, 05:45 | 6.84 |
| WashC-02-out | 19.948 | 1789.04 | 01Jan3000, 07:20 | 563.07 |
| WashC-03-out | 6.4934 | 593.4 | 01Jan3000, 08:15 | 162.53 |
| WashCmisc01-out | 18.1527 | 1627.09 | 01Jan3000, 07:45 | 498.93 |
| WshB-03-out | 6.934 | 762.37 | 01Jan3000, 07:50 | 212.56 |
| WshB-1B-01-out | 0.0675 | 31.27 | 01Jan3000, 05:30 | 3.24 |
| WshB-1C-01 | 0.174 | 57.11 | 01Jan3000, 05:40 | 7.37 |
| WshB-1C-01-out | 0.0593 | 23.35 | 01Jan3000, 05:25 | 1.79 |
| WshB1-C1-A02-out | 0.4695 | 128.58 | 01Jan3000, 06:00 | 21.73 |
| WshB1A-02-OUT | 0.2955 | 84.14 | 01Jan3000, 06:10 | 14.36 |
| WshC-01-out | 33.7733 | 3213.99 | 01Jan3000, 07:20 | 925.97 |
| wash-04@SR-out | 4.2919 | 497.29 | 01Jan3000, 06:45 | 118.59 |

Golden Valley Ranch Technical Drainage Study



Golden Valley Ranch Technical Drainage Study

Project: Offsite D 100yr-24hr
 Description: Basin: Offsite D & Met: Offsite D 100yr-24hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|---------------------|--------------------------|-------------------------|------------------|----------------|
| 13 U/S of C | 16.8601 | 3016.6 | 01Jan3000, 16:20 | 937.37 |
| 13MileWash-02 | 0.7827 | 171.51 | 01Jan3000, 14:30 | 43.15 |
| 13MileWash-03 | 1.5852 | 315.04 | 01Jan3000, 14:45 | 85.19 |
| 13MileWashA-01 | 1.2028 | 229.56 | 01Jan3000, 14:40 | 65.51 |
| 13MileWashA-02 | 4.8114 | 1002.78 | 01Jan3000, 15:00 | 275.24 |
| 13MileWashB-01 | 0.4188 | 111.46 | 01Jan3000, 14:10 | 22.85 |
| 13MileWashB-02 | 0.057 | 40.43 | 01Jan3000, 13:25 | 2.92 |
| 13MileWashB-03 | 0.3592 | 234.67 | 01Jan3000, 13:20 | 18.76 |
| 13MileWashB-04 | 0.0449 | 19.17 | 01Jan3000, 13:45 | 2.17 |
| 13MileWashB-05 | 6.4185 | 1420.68 | 01Jan3000, 14:55 | 357.43 |
| 13MileWashB-1A-01 | 0.5987 | 208.33 | 01Jan3000, 14:00 | 32.82 |
| 13MileWashB-1A-02 | 0.1641 | 67.04 | 01Jan3000, 13:40 | 8.95 |
| 13MileWashB-1A-03 | 0.1314 | 59.46 | 01Jan3000, 13:35 | 7.28 |
| 13MileWashB-1B-01 | 0.0439 | 40.53 | 01Jan3000, 13:20 | 2.33 |
| 13MileWashB-1B-02 | 0.0675 | 51.16 | 01Jan3000, 13:25 | 3.68 |
| 13MileWashB-1C-01 | 0.1147 | 49.11 | 01Jan3000, 13:35 | 6.3 |
| 13MileWashB-1C-02 | 0.0593 | 57.25 | 01Jan3000, 13:20 | 3.29 |
| Conf-B1-B-03-out | 6.5748 | 1425.94 | 01Jan3000, 15:15 | 365.78 |
| ConfB-1B-01-out | 0.1114 | 80.58 | 01Jan3000, 13:25 | 6.02 |
| Confl A-B | 12.9482 | 2591.23 | 01Jan3000, 15:35 | 725.38 |
| Confl-B-wash3 | 16.0774 | 2945.23 | 01Jan3000, 15:50 | 894.96 |
| ConflB02-B1-A | 14.0734 | 2709.42 | 01Jan3000, 15:35 | 786.98 |
| Offsite D | 16.8601 | 3016.6 | 01Jan3000, 16:20 | 937.37 |
| R_13Mile-02 | 16.0774 | 2941.95 | 01Jan3000, 16:20 | 894.22 |
| R_13MileWashA-01 | 4.8114 | 1000.43 | 01Jan3000, 15:35 | 275.28 |
| R_13MileWashB-01 | 14.0734 | 2705.26 | 01Jan3000, 15:55 | 786.92 |
| R_13MileWashB-02 | 12.9482 | 2589.58 | 01Jan3000, 15:40 | 725.37 |
| R_13MileWashB-03 | 6.5748 | 1423.57 | 01Jan3000, 15:40 | 365.83 |
| R_13MileWashB-04 | 6.4185 | 1420.08 | 01Jan3000, 15:15 | 357.59 |
| R_13MileWashB-1A-01 | 0.4695 | 169.68 | 01Jan3000, 14:15 | 25.88 |
| R_13MileWashB-1A-02 | 0.1314 | 59.08 | 01Jan3000, 14:05 | 7.29 |
| R_13MileWashB-1B-01 | 0.0675 | 50.52 | 01Jan3000, 13:30 | 3.69 |
| R_13MileWashB-1C-01 | 0.0593 | 56.32 | 01Jan3000, 13:30 | 3.29 |
| Wash B @ SR 68 | 6.4185 | 1420.68 | 01Jan3000, 14:55 | 357.43 |
| Wash-03-out | 1.5852 | 315.04 | 01Jan3000, 14:45 | 85.19 |
| WashA-01-out | 6.0142 | 1171.64 | 01Jan3000, 15:30 | 340.79 |
| WashA@SR68 | 4.8114 | 1002.78 | 01Jan3000, 15:00 | 275.24 |
| WashB-01-out | 14.4922 | 2747.43 | 01Jan3000, 15:55 | 809.77 |
| WashB-02-out | 13.0052 | 2590.14 | 01Jan3000, 15:40 | 728.28 |
| WashB-04-out | 6.4634 | 1423.49 | 01Jan3000, 15:15 | 359.76 |
| WashB-1A-1-out | 1.0682 | 376.3 | 01Jan3000, 14:00 | 58.7 |
| WashB-1A@SR68 | 0.1314 | 59.46 | 01Jan3000, 13:35 | 7.28 |
| WshB-03-out | 6.934 | 1430.8 | 01Jan3000, 15:40 | 384.59 |
| WshB-1B-01-out | 0.0675 | 51.16 | 01Jan3000, 13:25 | 3.68 |
| WshB-1C-01 | 0.174 | 103.32 | 01Jan3000, 13:30 | 9.59 |
| WshB-1C-01-out | 0.0593 | 57.25 | 01Jan3000, 13:20 | 3.29 |
| WshB1-C1-A02-out | 0.4695 | 170.91 | 01Jan3000, 13:55 | 25.84 |
| WshB1A-02-OUT | 0.2955 | 110.65 | 01Jan3000, 14:00 | 16.24 |

**Golden Valley Ranch
Technical Drainage Study**

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|--------------|----------------|
|--------------------|--------------------------|-------------------------|--------------|----------------|

Golden Valley Ranch Technical Drainage Study

Project: Offsite D 100yr-6hr

Description: Basin: Offsite D & Met: Offsite D 100yr-6hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|---------------------|--------------------------|-------------------------|------------------|----------------|
| 13 U/S of C | 16.8601 | 1867.55 | 01Jan3000, 08:35 | 596.21 |
| 13MileWash-02 | 0.7827 | 104.56 | 01Jan3000, 06:30 | 26.91 |
| 13MileWash-03 | 1.5852 | 184.71 | 01Jan3000, 06:45 | 50.73 |
| 13MileWashA-01 | 1.2028 | 137.86 | 01Jan3000, 06:45 | 40.12 |
| 13MileWashA-02 | 4.8114 | 659.51 | 01Jan3000, 07:05 | 183.72 |
| 13MileWashB-01 | 0.4188 | 65.93 | 01Jan3000, 06:10 | 13.97 |
| 13MileWashB-02 | 0.057 | 19.27 | 01Jan3000, 05:25 | 1.61 |
| 13MileWashB-03 | 0.3592 | 114.28 | 01Jan3000, 05:25 | 10.69 |
| 13MileWashB-04 | 0.0449 | 9.09 | 01Jan3000, 05:50 | 1.08 |
| 13MileWashB-05 | 6.4185 | 892.13 | 01Jan3000, 07:00 | 227.24 |
| 13MileWashB-1A-01 | 0.5987 | 123.05 | 01Jan3000, 06:05 | 20.24 |
| 13MileWashB-1A-02 | 0.1641 | 38.24 | 01Jan3000, 05:45 | 5.47 |
| 13MileWashB-1A-03 | 0.1314 | 34.41 | 01Jan3000, 05:40 | 4.58 |
| 13MileWashB-1B-01 | 0.0439 | 19.28 | 01Jan3000, 05:20 | 1.35 |
| 13MileWashB-1B-02 | 0.0675 | 26.64 | 01Jan3000, 05:25 | 2.25 |
| 13MileWashB-1C-01 | 0.1147 | 28.04 | 01Jan3000, 05:40 | 3.9 |
| 13MileWashB-1C-02 | 0.0593 | 28.63 | 01Jan3000, 05:20 | 2.07 |
| Conf-B1-B-03-out | 6.5748 | 893.31 | 01Jan3000, 07:20 | 232.01 |
| ConfB-1B-01-out | 0.1114 | 41.84 | 01Jan3000, 05:30 | 3.61 |
| Confl A-B | 12.9482 | 1614.41 | 01Jan3000, 07:40 | 466.58 |
| Confl-B-wash3 | 16.0774 | 1828.24 | 01Jan3000, 07:55 | 569.31 |
| ConflB02-B1-A | 14.0734 | 1689.96 | 01Jan3000, 07:40 | 504.48 |
| Offsite D | 16.8601 | 1867.55 | 01Jan3000, 08:35 | 596.21 |
| R_13Mile-02 | 16.0774 | 1825.33 | 01Jan3000, 08:35 | 569.3 |
| R_13MileWashA-01 | 4.8114 | 657.75 | 01Jan3000, 07:25 | 183.73 |
| R_13MileWashB-01 | 14.0734 | 1687.89 | 01Jan3000, 08:00 | 504.61 |
| R_13MileWashB-02 | 12.9482 | 1612.2 | 01Jan3000, 07:45 | 466.58 |
| R_13MileWashB-03 | 6.5748 | 892.08 | 01Jan3000, 07:55 | 232.05 |
| R_13MileWashB-04 | 6.4185 | 890.35 | 01Jan3000, 07:25 | 227.32 |
| R_13MileWashB-1A-01 | 0.4695 | 99.26 | 01Jan3000, 06:25 | 16.06 |
| R_13MileWashB-1A-02 | 0.1314 | 34.28 | 01Jan3000, 06:15 | 4.59 |
| R_13MileWashB-1B-01 | 0.0675 | 26.42 | 01Jan3000, 05:40 | 2.25 |
| R_13MileWashB-1C-01 | 0.0593 | 28.54 | 01Jan3000, 05:35 | 2.07 |
| Wash B @ SR 68 | 6.4185 | 892.13 | 01Jan3000, 07:00 | 227.24 |
| Wash-03-out | 1.5852 | 184.71 | 01Jan3000, 06:45 | 50.73 |
| WashA-01-out | 6.0142 | 769.86 | 01Jan3000, 07:20 | 223.84 |
| WashA@SR68 | 4.8114 | 659.51 | 01Jan3000, 07:05 | 183.72 |
| WashB-01-out | 14.4922 | 1713.09 | 01Jan3000, 08:00 | 518.58 |
| WashB-02-out | 13.0052 | 1612.47 | 01Jan3000, 07:45 | 468.18 |
| WashB-04-out | 6.4634 | 891.81 | 01Jan3000, 07:25 | 228.4 |
| WashB-1A-1-out | 1.0682 | 216.96 | 01Jan3000, 06:10 | 36.3 |
| WashB-1A@SR68 | 0.1314 | 34.41 | 01Jan3000, 05:40 | 4.58 |
| WshB-03-out | 6.934 | 895.11 | 01Jan3000, 07:55 | 242.74 |
| WshB-1B-01-out | 0.0675 | 26.64 | 01Jan3000, 05:25 | 2.25 |
| WshB-1C-01 | 0.174 | 55.93 | 01Jan3000, 05:35 | 5.97 |
| WshB-1C-01-out | 0.0593 | 28.63 | 01Jan3000, 05:20 | 2.07 |
| WshB1-C1-A02-out | 0.4695 | 100.06 | 01Jan3000, 06:00 | 16.03 |
| WshB1A-02-OUT | 0.2955 | 63.46 | 01Jan3000, 06:10 | 10.06 |

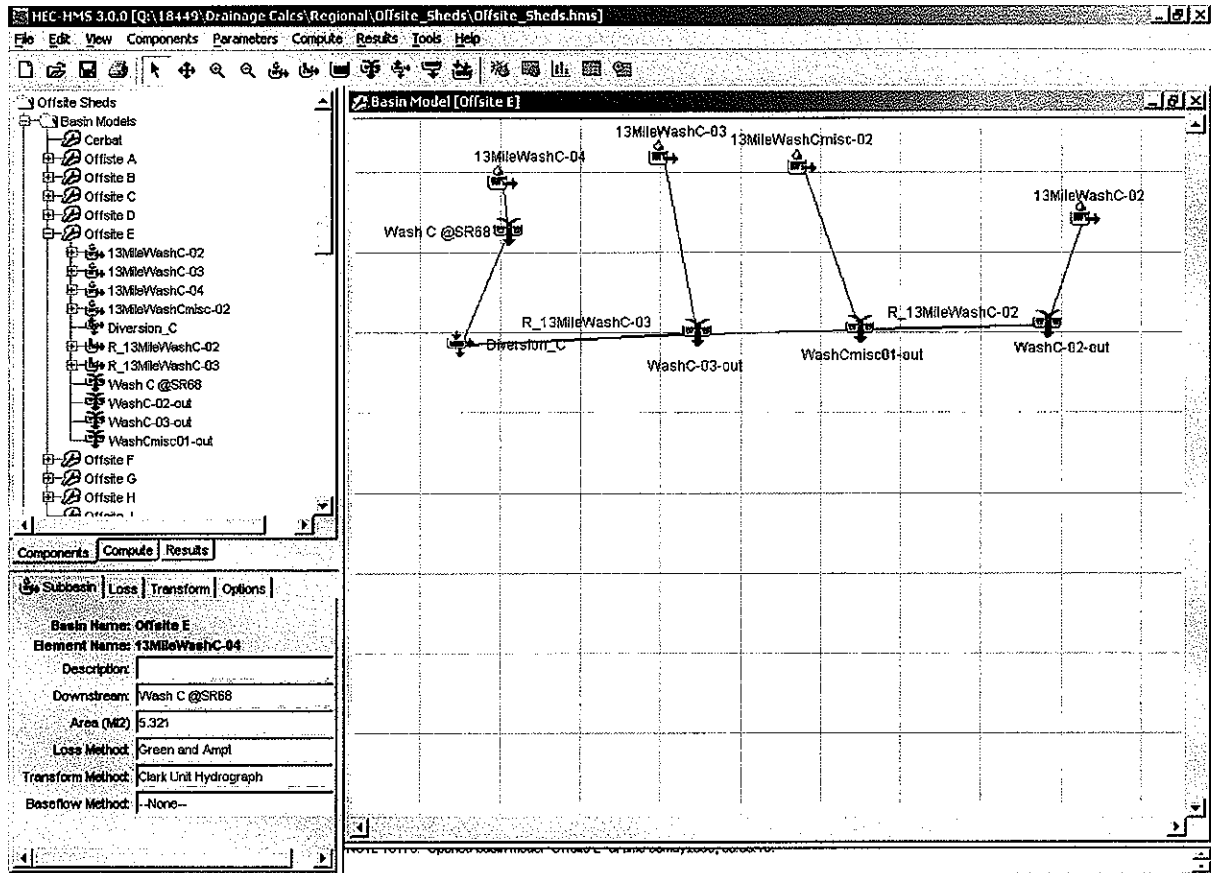
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D-6hr

1 of 1

ST-RH037514

Golden Valley Ranch Technical Drainage Study



Golden Valley Ranch Technical Drainage Study

Project: Offsite E 100yr-24hr
Description: Basin: Offsite E & Met: Offsite E 100yr-24hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| 13MileWashC-02 | 1.7953 | 573.71 | 01Jan3000, 14:30 | 118.42 |
| 13MileWashC-03 | 1.1533 | 330.43 | 01Jan3000, 14:25 | 74.72 |
| 13MileWashC-04 | 5.3401 | 1404.1 | 01Jan3000, 14:40 | 305.83 |
| 13MileWashCmisc-02 | 11.6593 | 2992.38 | 01Jan3000, 15:05 | 712.07 |
| Diversion_C | 5.3401 | 705.37 | 01Jan3000, 14:40 | 217.6 |
| Offsite E | 19.948 | 3941.06 | 01Jan3000, 15:40 | 1122.92 |
| R_13MileWashC-02 | 18.1527 | 3664.05 | 01Jan3000, 15:45 | 1004.5 |
| R_13MileWashC-03 | 5.3401 | 704.34 | 01Jan3000, 16:10 | 217.9 |
| Wash C @SR68 | 5.3401 | 1404.1 | 01Jan3000, 14:40 | 305.83 |
| WashC-03-out | 6.4934 | 847.1 | 01Jan3000, 15:55 | 292.62 |
| WashCmisc01-out | 18.1527 | 3701.4 | 01Jan3000, 15:15 | 1004.69 |

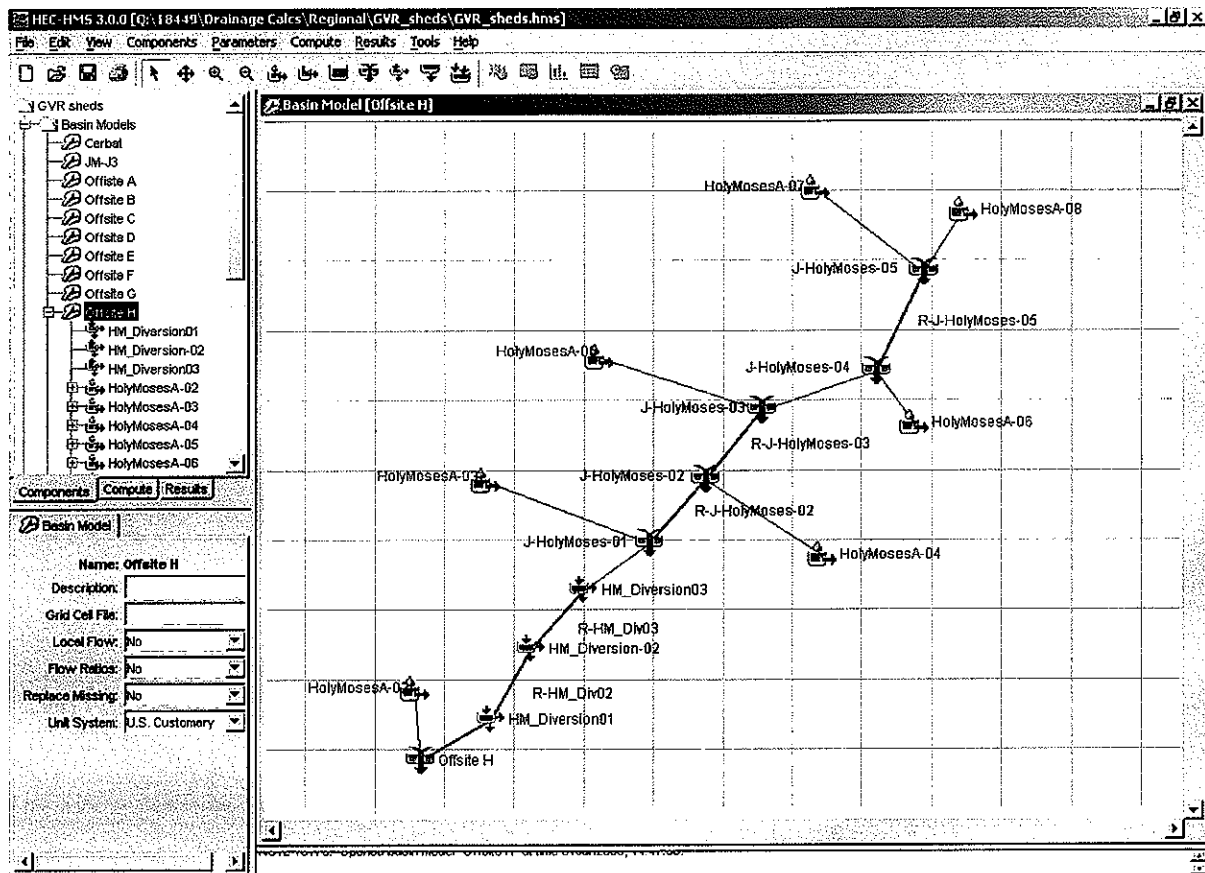
Golden Valley Ranch **Technical Drainage Study**

Project: Offsite E 100yr-6hr

Description: Basin: Offsite E & Met: Offsite E 100yr-6hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| 13MileWashC-02 | 1.7953 | 414.58 | 01Jan3000, 06:30 | 88.79 |
| 13MileWashC-03 | 1.1533 | 233.72 | 01Jan3000, 06:30 | 54.86 |
| 13MileWashC-04 | 5.3401 | 900.24 | 01Jan3000, 06:45 | 199.92 |
| 13MileWashCmisc-02 | 11.6593 | 2056.44 | 01Jan3000, 07:05 | 495.88 |
| Diversion_C | 5.3401 | 620.05 | 01Jan3000, 06:45 | 171.93 |
| Offsite E | 19.948 | 2708.3 | 01Jan3000, 07:50 | 811.65 |
| R_13MileWashC-02 | 18.1527 | 2512.43 | 01Jan3000, 07:55 | 722.86 |
| R_13MileWashC-03 | 5.3401 | 619.25 | 01Jan3000, 08:15 | 172.11 |
| Wash C @SR68 | 5.3401 | 900.24 | 01Jan3000, 06:45 | 199.92 |
| WashC-03-out | 6.4934 | 723.52 | 01Jan3000, 08:00 | 226.97 |
| WashCmisc01-out | 18.1527 | 2531.72 | 01Jan3000, 07:30 | 722.86 |

Golden Valley Ranch Technical Drainage Study



Golden Valley Ranch Technical Drainage Study

Project: Offsite H 100yr-24hr
Description: Basin: Offsite H & Met: Offsite H 100yr-24hr & Control: Control 1

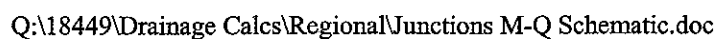
| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| HM_Diversion-02 | 57.1654 | 4141 | 01Jan3000, 15:25 | 2352.8 |
| HM_Diversion01 | 57.1654 | 4030 | 01Jan3000, 15:50 | 2312.11 |
| HM_Diversion03 | 57.1654 | 5228.95 | 01Jan3000, 18:15 | 2609.14 |
| HolyMosesA-02 | 1.2132 | 303.82 | 01Jan3000, 14:35 | 73.26 |
| HolyMosesA-03 | 3.8747 | 1347.96 | 01Jan3000, 14:15 | 210.81 |
| HolyMosesA-04 | 8.2644 | 1707.34 | 01Jan3000, 15:20 | 524.45 |
| HolyMosesA-05 | 4.2697 | 1202.6 | 01Jan3000, 14:35 | 230.92 |
| HolyMosesA-06 | 8.149 | 1833.92 | 01Jan3000, 15:15 | 530.22 |
| HolyMosesA-07 | 13.3273 | 2741.11 | 01Jan3000, 15:20 | 741.66 |
| HolyMosesA-08 | 19.2803 | 3585.27 | 01Jan3000, 16:00 | 1290.96 |
| J-HolyMoses-01 | 57.1654 | 9904.38 | 01Jan3000, 16:15 | 3520.92 |
| J-HolyMoses-02 | 53.2907 | 9906.22 | 01Jan3000, 15:45 | 3314.87 |
| J-HolyMoses-03 | 45.0263 | 8442.5 | 01Jan3000, 15:30 | 2792.75 |
| J-HolyMoses-04 | 40.7566 | 7800.9 | 01Jan3000, 15:35 | 2561.84 |
| J-HolyMoses-05 | 32.6076 | 6163.8 | 01Jan3000, 15:35 | 2032.62 |
| Offsite H | 58.3786 | 4119.53 | 01Jan3000, 16:50 | 2376.24 |
| R-HM_Div01 | 57.1654 | 4030 | 01Jan3000, 19:45 | 2302.98 |
| R-HM_Div02 | 57.1654 | 4141 | 01Jan3000, 19:30 | 2347.33 |
| R-HM_Div03 | 57.1654 | 5120.15 | 01Jan3000, 18:40 | 2599.5 |
| R-J-HolyMoses-02 | 53.2907 | 9713.99 | 01Jan3000, 16:20 | 3310.12 |
| R-J-HolyMoses-03 | 45.0263 | 8327.84 | 01Jan3000, 15:55 | 2790.42 |
| R-J-HolyMoses-05 | 32.6076 | 6147.66 | 01Jan3000, 15:50 | 2031.62 |

Golden Valley Ranch Technical Drainage Study

Project: Offsite H 100yr-6hr

Description: Basin: Offsite H & Met: Offsite H 100yr-6hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| HM_Diversion-02 | 57.1654 | 4141 | 01Jan3000, 09:25 | 1875.81 |
| HM_Diversion01 | 57.1654 | 4030 | 01Jan3000, 08:45 | 1856.71 |
| HM_Diversion03 | 57.1654 | 5240.34 | 01Jan3000, 09:00 | 2024.76 |
| HolyMosesA-02 | 1.2132 | 164.41 | 01Jan3000, 06:40 | 40.72 |
| HolyMosesA-03 | 3.8747 | 599.39 | 01Jan3000, 06:20 | 96.08 |
| HolyMosesA-04 | 8.2644 | 1005.24 | 01Jan3000, 07:25 | 312.99 |
| HolyMosesA-05 | 4.2697 | 531.12 | 01Jan3000, 06:35 | 103.65 |
| HolyMosesA-06 | 8.149 | 1119.07 | 01Jan3000, 07:15 | 329.52 |
| HolyMosesA-07 | 13.3273 | 1316.71 | 01Jan3000, 07:25 | 359.33 |
| HolyMosesA-08 | 19.2803 | 2326.68 | 01Jan3000, 08:05 | 850.36 |
| J-HolyMoses-01 | 57.1654 | 5634.03 | 01Jan3000, 08:25 | 2051.93 |
| J-HolyMoses-02 | 53.2907 | 5650.3 | 01Jan3000, 07:55 | 1955.86 |
| J-HolyMoses-03 | 45.0263 | 4803.62 | 01Jan3000, 07:35 | 1642.87 |
| J-HolyMoses-04 | 40.7566 | 4531.17 | 01Jan3000, 07:45 | 1539.22 |
| J-HolyMoses-05 | 32.6076 | 3537.1 | 01Jan3000, 07:45 | 1209.7 |
| Offsite H | 58.3786 | 4061.24 | 01Jan3000, 09:45 | 1897.44 |
| R-HM_Div01 | 57.1654 | 4029.97 | 01Jan3000, 10:45 | 1856.71 |
| R-HM_Div02 | 57.1654 | 4141 | 01Jan3000, 10:30 | 1875.81 |
| R-HM_Div03 | 57.1654 | 5204.46 | 01Jan3000, 09:25 | 2024.76 |
| R-J-HolyMoses-02 | 53.2907 | 5551.05 | 01Jan3000, 08:25 | 1955.86 |
| R-J-HolyMoses-03 | 45.0263 | 4744.14 | 01Jan3000, 08:00 | 1642.87 |
| R-J-HolyMoses-05 | 32.6076 | 3529.97 | 01Jan3000, 07:55 | 1209.7 |



Golden Valley Ranch Technical Drainage Study

Project: Junction M 100yr-24hr

Description: Basin: JunctionM & Met: Junction M 100yr-24hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| 13 U/S of C | 21.152 | 5633.35 | 01Jan3000, 16:00 | 2298.23 |
| 13MileWash-01 | 0.0215 | 17.49 | 01Jan3000, 13:20 | 2.01 |
| 13MileWash-02 | 0.7827 | 225.33 | 01Jan3000, 14:30 | 87.01 |
| 13MileWash-03 | 1.5852 | 405.23 | 01Jan3000, 14:40 | 162.46 |
| 13MileWash-04 | 4.2919 | 1126.15 | 01Jan3000, 14:45 | 406.56 |
| 13MileWashA-01 | 1.2028 | 304.38 | 01Jan3000, 14:40 | 131.04 |
| 13MileWashA-02 | 4.8114 | 1247.89 | 01Jan3000, 15:00 | 516.55 |
| 13MileWashB-01 | 0.4188 | 135.66 | 01Jan3000, 14:10 | 41.2 |
| 13MileWashB-02 | 0.057 | 50.25 | 01Jan3000, 13:25 | 5.75 |
| 13MileWashB-03 | 0.3592 | 219.4 | 01Jan3000, 13:45 | 39.93 |
| 13MileWashB-04 | 0.0449 | 32.45 | 01Jan3000, 13:20 | 3.59 |
| 13MileWashB-05 | 6.4185 | 1738.63 | 01Jan3000, 14:55 | 647.81 |
| 13MileWashB-1A-01 | 0.5987 | 269.21 | 01Jan3000, 14:00 | 66.79 |
| 13MileWashB-1A-02 | 0.1641 | 90.05 | 01Jan3000, 13:40 | 21.18 |
| 13MileWashB-1A-03 | 0.1314 | 80.75 | 01Jan3000, 13:40 | 18.44 |
| 13MileWashB-1B-01 | 0.0439 | 51.09 | 01Jan3000, 13:20 | 5.46 |
| 13MileWashB-1B-02 | 0.0675 | 65.83 | 01Jan3000, 13:25 | 9 |
| 13MileWashB-1C-01 | 0.1147 | 65.95 | 01Jan3000, 13:40 | 15.4 |
| 13MileWashB-1C-02 | 0.0593 | 65.14 | 01Jan3000, 13:20 | 5.96 |
| 13MileWashC-01 | 0.0375 | 24.65 | 01Jan3000, 13:25 | 3.03 |
| 13MileWashC-02 | 1.7953 | 625.51 | 01Jan3000, 14:30 | 199.58 |
| 13MileWashC-03 | 1.1533 | 362.91 | 01Jan3000, 14:25 | 124.46 |
| 13MileWashC-04 | 5.3401 | 1552.51 | 01Jan3000, 14:40 | 480.33 |
| 13MileWashCmisc-01 | 13.8256 | 3539.77 | 01Jan3000, 15:15 | 1293.56 |
| 13MileWashCmisc-02 | 11.6593 | 3257.25 | 01Jan3000, 15:05 | 1143.78 |
| 13MileWashE-01 | 1.0617 | 465.81 | 01Jan3000, 14:20 | 165.21 |
| 13MileWashE-02 | 0.357 | 85.67 | 01Jan3000, 14:40 | 27.58 |
| 13MileWashE-03 | 0.357 | 206.83 | 01Jan3000, 13:40 | 27.58 |
| 13mile-01-out | 0.0215 | 17.3 | 01Jan3000, 13:35 | 2.01 |
| 2900ft D/S of SR68 | 10.083 | 1892.9 | 01Jan3000, 15:40 | 996.13 |
| CebatTrib1A-01 | 0.5285 | 351.46 | 01Jan3000, 13:50 | 70.45 |
| CebatTrib1A-02 | 0.8467 | 265.98 | 01Jan3000, 14:20 | 91.37 |
| Cerbat-01 | 0.9269 | 400.46 | 01Jan3000, 14:10 | 106.77 |
| Cerbat-02 | 3.6691 | 856.76 | 01Jan3000, 15:15 | 393.75 |
| Cerbat-03 | 10.083 | 1892.9 | 01Jan3000, 15:40 | 996.13 |
| Conf-B1-B-03-out | 6.5748 | 1743.83 | 01Jan3000, 15:10 | 666.18 |
| ConfB-1B-01-out | 0.1114 | 106.4 | 01Jan3000, 13:25 | 14.48 |
| Confl -13Mil-C | 71.0388 | 15475.03 | 01Jan3000, 15:50 | 7079.65 |
| Confl A-B | 12.9482 | 3237.08 | 01Jan3000, 15:35 | 1353.76 |
| Confl-B-wash3 | 20.3693 | 5526.62 | 01Jan3000, 15:40 | 2211.35 |
| ConflB02-B1-A | 14.0734 | 3410.1 | 01Jan3000, 15:35 | 1487.42 |
| Diversion_C | 5.3401 | 755.09 | 01Jan3000, 14:40 | 366.24 |
| EndWashC | 33.8111 | 7674.34 | 01Jan3000, 15:40 | 3130.97 |
| J-M | 72.8145 | 15559.96 | 01Jan3000, 16:00 | 7297.66 |
| J_U/S_CerTrb1A-01 | 0.8467 | 265.98 | 01Jan3000, 14:20 | 91.37 |
| J_U/S_Cerb-01 | 16.0542 | 2664.64 | 01Jan3000, 16:10 | 1652.76 |
| Main U/S of Trib1A | 13.7521 | 2423.64 | 01Jan3000, 16:25 | 1384.1 |
| R-13MileWashE-01 | 71.0388 | 15229.51 | 01Jan3000, 16:00 | 7077.29 |

**Golden Valley Ranch
Technical Drainage Study**

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|---------------------|--------------------------|-------------------------|------------------|----------------|
| R-13MileWashE-03 | 0.357 | 124.46 | 01Jan3000, 15:30 | 27.58 |
| R_13Mile-01 | 0.0215 | 17.3 | 01Jan3000, 13:35 | 2.01 |
| R_13Mile-02 | 20.3693 | 5515.74 | 01Jan3000, 16:00 | 2211.21 |
| R_13Mile-03 | 4.2919 | 1909.15 | 01Jan3000, 15:30 | 520.37 |
| R_13MileWashA-01 | 4.8114 | 1245.46 | 01Jan3000, 15:35 | 516.56 |
| R_13MileWashB-01 | 14.0734 | 3406.49 | 01Jan3000, 15:55 | 1487.32 |
| R_13MileWashB-02 | 12.9482 | 3234.49 | 01Jan3000, 15:35 | 1353.77 |
| R_13MileWashB-03 | 6.5748 | 1740.62 | 01Jan3000, 15:40 | 666.23 |
| R_13MileWashB-04 | 6.4185 | 1736.41 | 01Jan3000, 15:10 | 648.11 |
| R_13MileWashB-1A-01 | 0.4695 | 241.28 | 01Jan3000, 14:15 | 61.11 |
| R_13MileWashB-1A-02 | 0.1314 | 80.43 | 01Jan3000, 14:05 | 18.48 |
| R_13MileWashB-1B-01 | 0.0675 | 65.43 | 01Jan3000, 13:30 | 9.02 |
| R_13MileWashB-1C-01 | 0.0593 | 64.12 | 01Jan3000, 13:30 | 5.97 |
| R_13MileWashC-01 | 33.7736 | 7673.18 | 01Jan3000, 15:40 | 3127.94 |
| R_13MileWashC-02 | 18.1527 | 4004.5 | 01Jan3000, 15:40 | 1635.1 |
| R_13MileWashC-03 | 5.3401 | 753.39 | 01Jan3000, 16:10 | 366.74 |
| R_CerbTrib1A-01 | 0.8467 | 265.23 | 01Jan3000, 14:55 | 91.44 |
| R_Cerbat-01 | 16.0542 | 2662.95 | 01Jan3000, 16:35 | 1648.44 |
| R_Cerbat-02 | 10.083 | 1889.59 | 01Jan3000, 16:40 | 990.35 |
| Trib1A U/S of Main | 1.3752 | 421.37 | 01Jan3000, 14:25 | 161.88 |
| Wash B @ SR 68 | 6.4185 | 1738.63 | 01Jan3000, 14:55 | 647.81 |
| Wash C @SR68 | 5.3401 | 1552.51 | 01Jan3000, 14:40 | 480.33 |
| Wash-03-out | 5.8771 | 2221.65 | 01Jan3000, 15:25 | 682.83 |
| WashA-01-out | 6.0142 | 1474.82 | 01Jan3000, 15:30 | 647.6 |
| WashA@SR68 | 4.8114 | 1247.89 | 01Jan3000, 15:00 | 516.55 |
| WashB-01-out | 14.4922 | 3458.18 | 01Jan3000, 15:55 | 1528.52 |
| WashB-02-out | 13.0052 | 3235.38 | 01Jan3000, 15:35 | 1359.52 |
| WashB-04-out | 6.4634 | 1738.6 | 01Jan3000, 15:10 | 651.7 |
| WashB-1A-1-out | 1.0682 | 505.1 | 01Jan3000, 14:05 | 127.9 |
| WashB-1A@SR68 | 0.1314 | 80.75 | 01Jan3000, 13:40 | 18.44 |
| WashC-02-out | 19.948 | 4328.52 | 01Jan3000, 15:40 | 1834.68 |
| WashC-03-out | 6.4934 | 910.89 | 01Jan3000, 16:00 | 491.2 |
| WashCmisc01-out | 18.1527 | 4031.71 | 01Jan3000, 15:15 | 1634.97 |
| WshB-03-out | 6.934 | 1766.5 | 01Jan3000, 15:35 | 706.16 |
| WshB-1B-01-out | 0.0675 | 65.83 | 01Jan3000, 13:25 | 9 |
| WshB-1C-01 | 0.4695 | 242.98 | 01Jan3000, 13:50 | 61.03 |
| WshB-1C-01-out | 0.0593 | 65.14 | 01Jan3000, 13:20 | 5.96 |
| WshB1-C1-A02-out | 0.4695 | 242.98 | 01Jan3000, 13:50 | 61.03 |
| WshB1A-02-OUT | 0.2955 | 156.14 | 01Jan3000, 14:00 | 39.66 |
| WshC-01-out | 33.7736 | 7697.4 | 01Jan3000, 15:35 | 3128.23 |
| wash-04@SR-out | 4.2919 | 1921.7 | 01Jan3000, 14:45 | 520.65 |

Golden Valley Ranch Technical Drainage Study

Project: Junction M 100yr-6hr

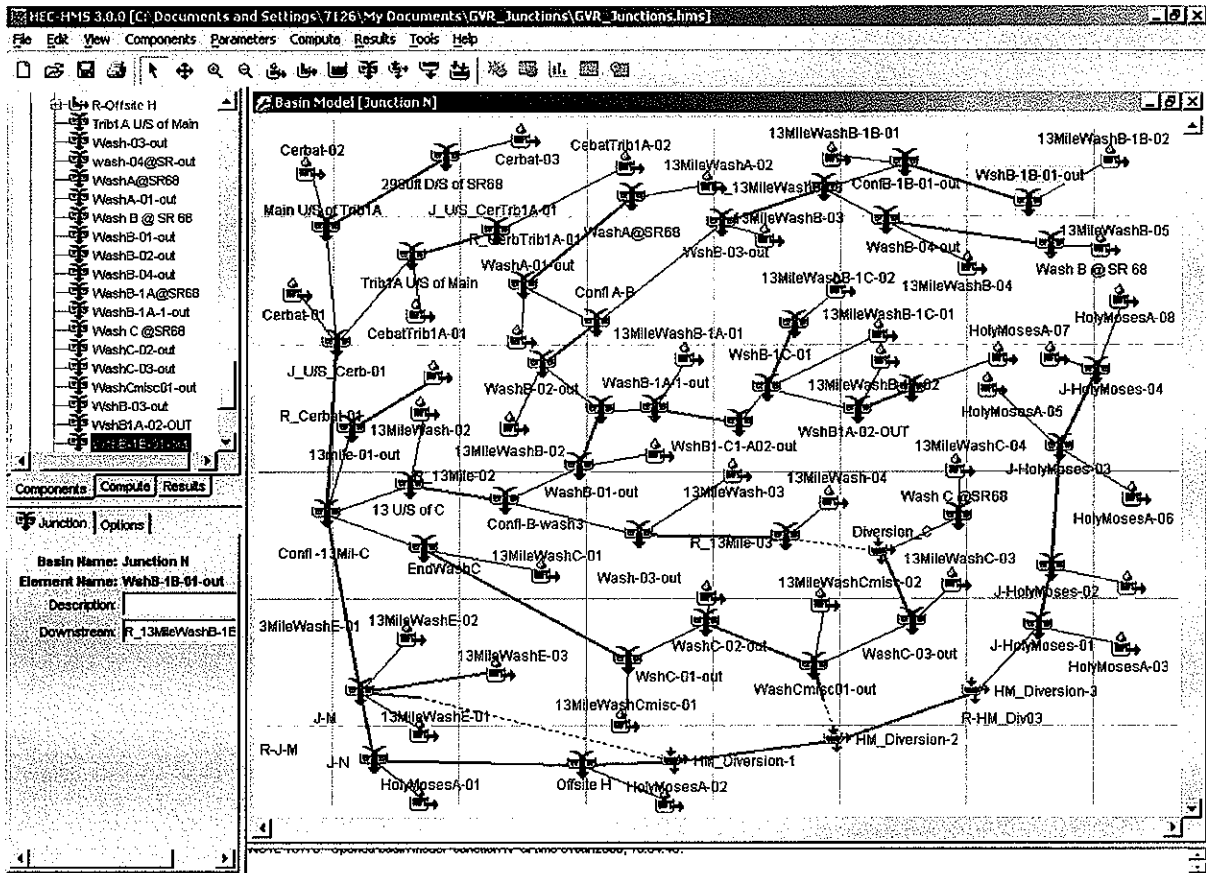
Description: Basin: JunctionM & Met: Junction M 100yr-6hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| 13 U/S of C | 21.152 | 4153.38 | 01Jan3000, 16:00 | 1189.03 |
| 13MileWash-01 | 0.0215 | 14.04 | 01Jan3000, 13:20 | 1.07 |
| 13MileWash-02 | 0.7827 | 174.55 | 01Jan3000, 14:30 | 44.09 |
| 13MileWash-03 | 1.5852 | 310.47 | 01Jan3000, 14:45 | 84.14 |
| 13MileWash-04 | 4.2919 | 863.42 | 01Jan3000, 14:45 | 215.51 |
| 13MileWashA-01 | 1.2028 | 233.43 | 01Jan3000, 14:40 | 66.8 |
| 13MileWashA-02 | 4.8114 | 964.42 | 01Jan3000, 15:00 | 265 |
| 13MileWashB-01 | 0.4188 | 104.84 | 01Jan3000, 14:10 | 21.53 |
| 13MileWashB-02 | 0.057 | 40.59 | 01Jan3000, 13:25 | 2.99 |
| 13MileWashB-03 | 0.3592 | 176.11 | 01Jan3000, 13:45 | 20.23 |
| 13MileWashB-04 | 0.0449 | 25.29 | 01Jan3000, 13:20 | 2.01 |
| 13MileWashB-05 | 6.4185 | 1336.01 | 01Jan3000, 14:55 | 336.29 |
| 13MileWashB-1A-01 | 0.5987 | 212.46 | 01Jan3000, 14:00 | 33.69 |
| 13MileWashB-1A-02 | 0.1641 | 74.56 | 01Jan3000, 13:40 | 10.2 |
| 13MileWashB-1A-03 | 0.1314 | 68.09 | 01Jan3000, 13:40 | 8.71 |
| 13MileWashB-1B-01 | 0.0439 | 43.72 | 01Jan3000, 13:20 | 2.66 |
| 13MileWashB-1B-02 | 0.0675 | 56.39 | 01Jan3000, 13:25 | 4.29 |
| 13MileWashB-1C-01 | 0.1147 | 55.22 | 01Jan3000, 13:35 | 7.33 |
| 13MileWashB-1C-02 | 0.0593 | 53.49 | 01Jan3000, 13:20 | 3.1 |
| 13MileWashC-01 | 0.0375 | 19.05 | 01Jan3000, 13:25 | 1.69 |
| 13MileWashC-02 | 1.7953 | 490.68 | 01Jan3000, 14:30 | 101.12 |
| 13MileWashC-03 | 1.1533 | 281.55 | 01Jan3000, 14:25 | 63.54 |
| 13MileWashC-04 | 5.3401 | 1191.1 | 01Jan3000, 14:40 | 259.28 |
| 13MileWashCmisc-01 | 13.8256 | 2740.26 | 01Jan3000, 15:15 | 690.78 |
| 13MileWashCmisc-02 | 11.6593 | 2523.95 | 01Jan3000, 15:05 | 600.02 |
| 13MileWashE-01 | 1.0617 | 393.38 | 01Jan3000, 14:20 | 77.61 |
| 13MileWashE-02 | 0.357 | 63.82 | 01Jan3000, 14:45 | 15.56 |
| 13MileWashE-03 | 0.357 | 157.76 | 01Jan3000, 13:40 | 15.56 |
| 13mile-01-out | 0.0215 | 13.94 | 01Jan3000, 13:35 | 1.07 |
| 2900ft D/S of SR68 | 10.083 | 1426.76 | 01Jan3000, 15:45 | 519.04 |
| CebatTrib1A-01 | 0.5285 | 291.05 | 01Jan3000, 13:50 | 33.58 |
| CebatTrib1A-02 | 0.8467 | 206.42 | 01Jan3000, 14:20 | 46.65 |
| Cerbat-01 | 0.9269 | 316.66 | 01Jan3000, 14:10 | 53.39 |
| Cerbat-02 | 3.6691 | 657.43 | 01Jan3000, 15:15 | 201.97 |
| Cerbat-03 | 10.083 | 1426.76 | 01Jan3000, 15:45 | 519.04 |
| Conf-B1-B-03-out | 6.5748 | 1339.84 | 01Jan3000, 15:15 | 345.4 |
| ConfB-1B-01-out | 0.1114 | 89.46 | 01Jan3000, 13:25 | 6.95 |
| Confl -13Mil-C | 71.0388 | 11716.92 | 01Jan3000, 15:55 | 3693.1 |
| Confl A-B | 12.9482 | 2479.68 | 01Jan3000, 15:35 | 697.49 |
| Confl-B-wash3 | 20.3693 | 4095.29 | 01Jan3000, 15:35 | 1145.58 |
| ConflB02-B1-A | 14.0734 | 2611.92 | 01Jan3000, 15:35 | 763.54 |
| Diversion_C | 5.3401 | 660.07 | 01Jan3000, 14:40 | 198.56 |
| EndWashC | 33.8111 | 5835.22 | 01Jan3000, 15:25 | 1656.13 |
| J-M | 72.8145 | 11779.12 | 01Jan3000, 16:05 | 3799.96 |
| J_U/S_CerTrb1A-01 | 0.8467 | 206.42 | 01Jan3000, 14:20 | 46.65 |
| J_U/S_Cerb-01 | 16.0542 | 1993.36 | 01Jan3000, 16:15 | 850.28 |
| Main U/S of Trib1A | 13.7521 | 1818.57 | 01Jan3000, 16:30 | 716.62 |
| R-13MileWashE-01 | 71.0388 | 11539.21 | 01Jan3000, 16:05 | 3691.24 |

**Golden Valley Ranch
Technical Drainage Study**

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|---------------------|--------------------------|-------------------------|------------------|----------------|
| R-13MileWashE-03 | 0.357 | 93.18 | 01Jan3000, 15:30 | 15.56 |
| R_13Mile-01 | 0.0215 | 13.94 | 01Jan3000, 13:35 | 1.07 |
| R_13Mile-02 | 20.3693 | 4064.02 | 01Jan3000, 16:00 | 1144.94 |
| R_13Mile-03 | 4.2919 | 1388.02 | 01Jan3000, 15:30 | 276.36 |
| R_13MileWashA-01 | 4.8114 | 961.77 | 01Jan3000, 15:35 | 265.02 |
| R_13MileWashB-01 | 14.0734 | 2605.55 | 01Jan3000, 15:55 | 763.54 |
| R_13MileWashB-02 | 12.9482 | 2476.94 | 01Jan3000, 15:40 | 697.47 |
| R_13MileWashB-03 | 6.5748 | 1336.67 | 01Jan3000, 15:45 | 345.43 |
| R_13MileWashB-04 | 6.4185 | 1335.46 | 01Jan3000, 15:15 | 336.44 |
| R_13MileWashB-1A-01 | 0.4695 | 193.11 | 01Jan3000, 14:15 | 29.4 |
| R_13MileWashB-1A-02 | 0.1314 | 67.85 | 01Jan3000, 14:05 | 8.72 |
| R_13MileWashB-1B-01 | 0.0675 | 55.69 | 01Jan3000, 13:30 | 4.29 |
| R_13MileWashB-1C-01 | 0.0593 | 52.62 | 01Jan3000, 13:30 | 3.11 |
| R_13MileWashC-01 | 33.7736 | 5833.95 | 01Jan3000, 15:25 | 1654.44 |
| R_13MileWashC-02 | 18.1527 | 3101.57 | 01Jan3000, 15:50 | 862.41 |
| R_13MileWashC-03 | 5.3401 | 659.72 | 01Jan3000, 16:15 | 198.85 |
| R_CerbTrib1A-01 | 0.8467 | 206 | 01Jan3000, 14:55 | 46.7 |
| R_Cerbat-01 | 16.0542 | 1992.14 | 01Jan3000, 16:45 | 846.87 |
| R_Cerbat-02 | 10.083 | 1424.23 | 01Jan3000, 16:45 | 514.65 |
| Trib1A U/S of Main | 1.3752 | 321.8 | 01Jan3000, 14:00 | 80.27 |
| Wash B @ SR 68 | 6.4185 | 1336.01 | 01Jan3000, 14:55 | 336.29 |
| Wash C @SR68 | 5.3401 | 1191.1 | 01Jan3000, 14:40 | 259.28 |
| Wash-03-out | 5.8771 | 1627.21 | 01Jan3000, 15:25 | 360.51 |
| WashA-01-out | 6.0142 | 1137.68 | 01Jan3000, 15:30 | 331.82 |
| WashA@SR68 | 4.8114 | 964.42 | 01Jan3000, 15:00 | 265 |
| WashB-01-out | 14.4922 | 2645.2 | 01Jan3000, 15:55 | 785.07 |
| WashB-02-out | 13.0052 | 2477.5 | 01Jan3000, 15:40 | 700.45 |
| WashB-04-out | 6.4634 | 1336.94 | 01Jan3000, 15:15 | 338.45 |
| WashB-1A-1-out | 1.0682 | 396.56 | 01Jan3000, 14:05 | 63.09 |
| WashB-1A@SR68 | 0.1314 | 68.09 | 01Jan3000, 13:40 | 8.71 |
| WashC-02-out | 19.948 | 3322.83 | 01Jan3000, 15:50 | 963.53 |
| WashC-03-out | 6.4934 | 784.5 | 01Jan3000, 15:50 | 262.4 |
| WashCmisc01-out | 18.1527 | 3141.22 | 01Jan3000, 15:20 | 862.42 |
| WshB-03-out | 6.934 | 1354.42 | 01Jan3000, 15:40 | 365.66 |
| WshB-1B-01-out | 0.0675 | 56.39 | 01Jan3000, 13:25 | 4.29 |
| WshB-1C-01 | 0.4695 | 193.42 | 01Jan3000, 13:55 | 29.36 |
| WshB-1C-01-out | 0.0593 | 53.49 | 01Jan3000, 13:20 | 3.1 |
| WshB1-C1-A02-out | 0.4695 | 193.42 | 01Jan3000, 13:55 | 29.36 |
| WshB1A-02-OUT | 0.2955 | 127.19 | 01Jan3000, 14:00 | 18.92 |
| WshC-01-out | 33.7736 | 5835.81 | 01Jan3000, 15:15 | 1654.31 |
| wash-04@SR-out | 4.2919 | 1394.16 | 01Jan3000, 14:45 | 276.22 |

Golden Valley Ranch Technical Drainage Study



Golden Valley Ranch Technical Drainage Study

Project: Junction N 100yr-24h

Description Basin: Junction N & Met: Junction N 100yr-24hr & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| 13 U/S of C | 21.152 | 4241.12 | 01Jan3000, 16:00 | 1206.05 |
| 13MileWash-01 | 0.0215 | 14.21 | 01Jan3000, 13:20 | 1.08 |
| 13MileWash-02 | 0.7827 | 176.68 | 01Jan3000, 14:30 | 44.63 |
| 13MileWash-03 | 1.5852 | 314.53 | 01Jan3000, 14:45 | 85.26 |
| 13MileWash-04 | 4.2919 | 874.04 | 01Jan3000, 14:45 | 218.17 |
| 13MileWashA-01 | 1.2028 | 236.33 | 01Jan3000, 14:40 | 67.64 |
| 13MileWashA-02 | 4.8114 | 976.54 | 01Jan3000, 15:00 | 268.36 |
| 13MileWashB-01 | 0.4188 | 106.17 | 01Jan3000, 14:10 | 21.81 |
| 13MileWashB-02 | 0.057 | 41.08 | 01Jan3000, 13:25 | 3.03 |
| 13MileWashB-03 | 0.3592 | 178.21 | 01Jan3000, 13:45 | 20.48 |
| 13MileWashB-04 | 0.0449 | 25.62 | 01Jan3000, 13:20 | 2.04 |
| 13MileWashB-05 | 6.4185 | 1353.81 | 01Jan3000, 14:55 | 340.8 |
| 13MileWashB-1A-01 | 0.5987 | 215.03 | 01Jan3000, 14:00 | 34.11 |
| 13MileWashB-1A-02 | 0.1641 | 75.37 | 01Jan3000, 13:40 | 10.32 |
| 13MileWashB-1A-03 | 0.1314 | 68.79 | 01Jan3000, 13:40 | 8.81 |
| 13MileWashB-1B-01 | 0.0439 | 44.18 | 01Jan3000, 13:20 | 2.69 |
| 13MileWashB-1B-02 | 0.0675 | 56.96 | 01Jan3000, 13:25 | 4.34 |
| 13MileWashB-1C-01 | 0.1147 | 55.8 | 01Jan3000, 13:35 | 7.42 |
| 13MileWashB-1C-02 | 0.0593 | 54.12 | 01Jan3000, 13:20 | 3.15 |
| 13MileWashC-01 | 0.0375 | 19.31 | 01Jan3000, 13:25 | 1.71 |
| 13MileWashC-02 | 1.7953 | 496.66 | 01Jan3000, 14:30 | 102.37 |
| 13MileWashC-03 | 1.1533 | 285.08 | 01Jan3000, 14:25 | 64.35 |
| 13MileWashC-04 | 5.3401 | 1206.34 | 01Jan3000, 14:40 | 262.61 |
| 13MileWashCmisc-01 | 13.8256 | 2774.1 | 01Jan3000, 15:15 | 699.34 |
| 13MileWashCmisc-02 | 11.6593 | 2556.1 | 01Jan3000, 15:05 | 607.71 |
| 13MileWashE-01 | 1.0617 | 397.49 | 01Jan3000, 14:20 | 78.48 |
| 13MileWashE-02 | 0.357 | 64.74 | 01Jan3000, 14:45 | 15.78 |
| 13MileWashE-03 | 0.357 | 159.94 | 01Jan3000, 13:40 | 15.78 |
| 13mile-01-out | 0.0215 | 14.08 | 01Jan3000, 13:35 | 1.08 |
| 2900ft D/S of SR68 | 10.083 | 1445.3 | 01Jan3000, 15:45 | 525.81 |
| CebatTrib1A-01 | 0.5285 | 294.2 | 01Jan3000, 13:50 | 33.97 |
| CebatTrib1A-02 | 0.8467 | 209 | 01Jan3000, 14:20 | 47.24 |
| Cerbat-01 | 0.9269 | 320.42 | 01Jan3000, 14:10 | 54.03 |
| Cerbat-02 | 3.6691 | 665.7 | 01Jan3000, 15:15 | 204.52 |
| Cerbat-03 | 10.083 | 1445.3 | 01Jan3000, 15:45 | 525.81 |
| Conf-B1-B-03-out | 6.5748 | 1357.3 | 01Jan3000, 15:15 | 349.99 |
| ConfB-1B-01-out | 0.1114 | 90.43 | 01Jan3000, 13:25 | 7.03 |
| Confl -13Mil-C | 71.0388 | 11895.72 | 01Jan3000, 15:55 | 3943.4 |
| Confl A-B | 12.9482 | 2514.89 | 01Jan3000, 15:35 | 706.48 |
| Confl-B-wash3 | 20.3693 | 4175.95 | 01Jan3000, 15:35 | 1161.66 |
| ConflB02-B1-A | 14.0734 | 2646.89 | 01Jan3000, 15:35 | 773.37 |
| Diversion_C | 5.3401 | 662.36 | 01Jan3000, 14:40 | 199.93 |
| EndWashC | 33.8111 | 5908.22 | 01Jan3000, 15:25 | 1878.67 |
| HM_Diversion-1 | 57.1654 | 4140.61 | 01Jan3000, 20:35 | 2206.89 |
| HM_Diversion-2 | 57.1654 | 4141 | 01Jan3000, 17:20 | 2261.64 |
| HM_Diversion-3 | 57.1654 | 5230.87 | 01Jan3000, 18:00 | 2488.13 |
| HolyMosesA-01 | 3.3 | 663.43 | 01Jan3000, 14:50 | 147.87 |
| HolyMosesA-02 | 1.2132 | 265.9 | 01Jan3000, 14:35 | 64.02 |

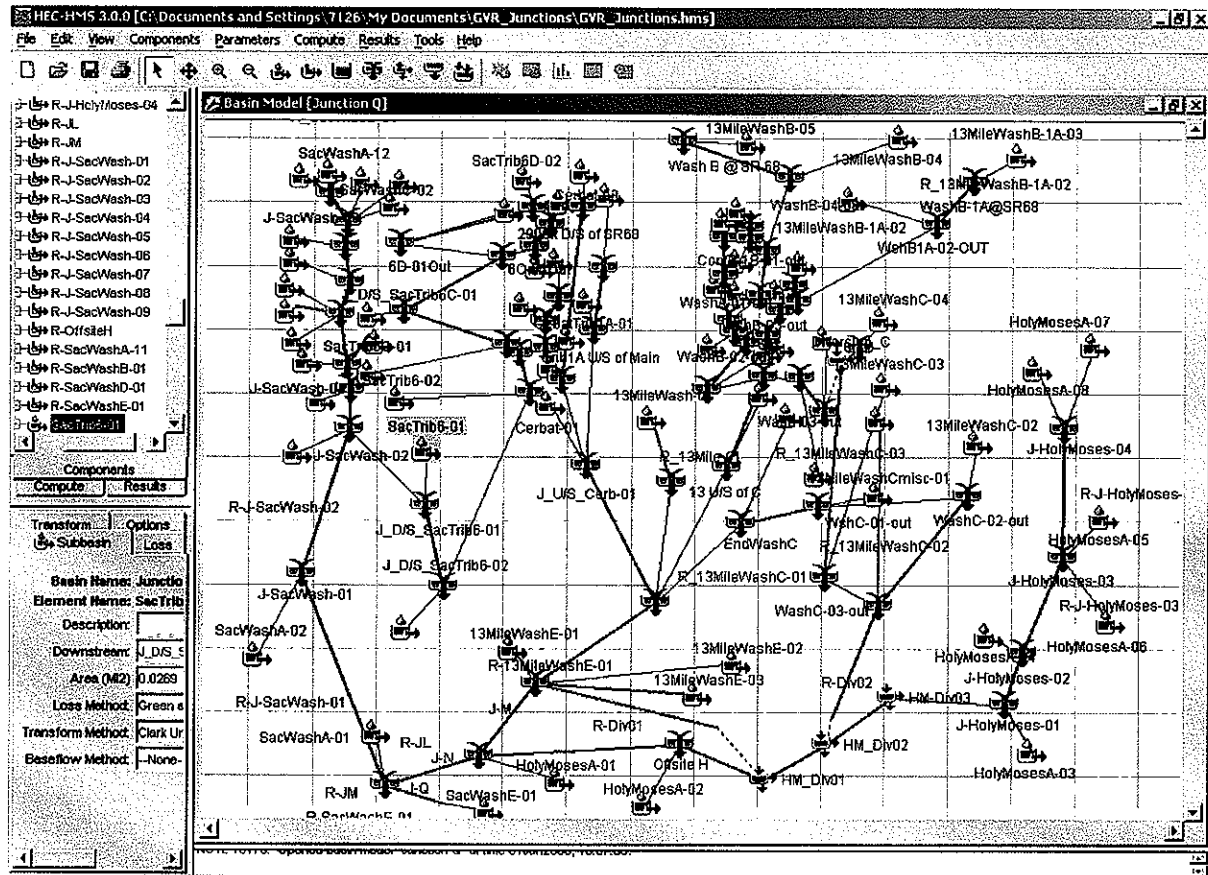
**Golden Valley Ranch
Technical Drainage Study**

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|---------------------|--------------------------|-------------------------|------------------|----------------|
| HolyMosesA-03 | 3.8747 | 1178.6 | 01Jan3000, 14:15 | 184.16 |
| HolyMosesA-04 | 8.2644 | 1501.9 | 01Jan3000, 15:20 | 461.13 |
| HolyMosesA-05 | 4.2697 | 1051 | 01Jan3000, 14:35 | 201.55 |
| HolyMosesA-06 | 8.149 | 1619.86 | 01Jan3000, 15:15 | 468.08 |
| HolyMosesA-07 | 13.3273 | 2405.05 | 01Jan3000, 15:20 | 650.53 |
| HolyMosesA-08 | 19.2803 | 3180.54 | 01Jan3000, 16:00 | 1145.2 |
| J-HolyMoses-01 | 57.1654 | 8732.47 | 01Jan3000, 16:15 | 3103.86 |
| J-HolyMoses-02 | 53.2907 | 8736.23 | 01Jan3000, 15:45 | 2923.64 |
| J-HolyMoses-03 | 45.0263 | 7450.98 | 01Jan3000, 15:30 | 2464.51 |
| J-HolyMoses-04 | 32.6076 | 5445.17 | 01Jan3000, 15:35 | 1795.73 |
| J-M | 72.8145 | 11960.23 | 01Jan3000, 16:05 | 4051.57 |
| J-N | 134.4931 | 11948.2 | 01Jan3000, 16:55 | 6038.2 |
| J_U/S_CerTrb1A-01 | 0.8467 | 209 | 01Jan3000, 14:20 | 47.24 |
| J_U/S_Cerb-01 | 16.0542 | 2019.3 | 01Jan3000, 16:15 | 861.07 |
| Main U/S of Trib1A | 13.7521 | 1842.52 | 01Jan3000, 16:30 | 725.78 |
| Offsite H | 58.3786 | 4136.44 | 01Jan3000, 21:50 | 2146.85 |
| R-13MileWashE-01 | 71.0388 | 11717.25 | 01Jan3000, 16:05 | 3941.52 |
| R-13MileWashE-03 | 0.357 | 94.51 | 01Jan3000, 15:30 | 15.78 |
| R-Div01 | 0 | 0 | 01Jan3000, 01:00 | 0 |
| R-Div02 | 0 | 836.83 | 01Jan3000, 20:15 | 203.08 |
| R-HM_Div01 | 57.1654 | 4130.82 | 01Jan3000, 21:55 | 2082.82 |
| R-HM_Div02 | 57.1654 | 4140.61 | 01Jan3000, 20:35 | 2206.89 |
| R-HM_Div03 | 57.1654 | 5049.93 | 01Jan3000, 19:00 | 2464.72 |
| R-J-HolyMoses-02 | 53.2907 | 8566.37 | 01Jan3000, 16:20 | 2919.69 |
| R-J-HolyMoses-03 | 45.0263 | 7349.82 | 01Jan3000, 15:55 | 2462.52 |
| R-J-HolyMoses-04 | 32.6076 | 5432.01 | 01Jan3000, 15:50 | 1794.88 |
| R-J-M | 72.8145 | 11567.64 | 01Jan3000, 16:55 | 4041.11 |
| R-Offsite H | 58.3786 | 4101.88 | 01Jan3000, 23:30 | 1849.23 |
| R_13Mile-01 | 0.0215 | 14.08 | 01Jan3000, 13:35 | 1.08 |
| R_13Mile-02 | 20.3693 | 4150.66 | 01Jan3000, 16:00 | 1161.42 |
| R_13Mile-03 | 4.2919 | 1412.1 | 01Jan3000, 15:30 | 281.15 |
| R_13MileWashA-01 | 4.8114 | 974.1 | 01Jan3000, 15:35 | 268.37 |
| R_13MileWashB-01 | 14.0734 | 2640.17 | 01Jan3000, 15:55 | 773.45 |
| R_13MileWashB-02 | 12.9482 | 2511.31 | 01Jan3000, 15:40 | 706.48 |
| R_13MileWashB-03 | 6.5748 | 1354.65 | 01Jan3000, 15:40 | 349.99 |
| R_13MileWashB-04 | 6.4185 | 1352.86 | 01Jan3000, 15:15 | 340.92 |
| R_13MileWashB-1A-01 | 0.4695 | 195.5 | 01Jan3000, 14:15 | 29.75 |
| R_13MileWashB-1A-02 | 0.1314 | 68.54 | 01Jan3000, 14:05 | 8.82 |
| R_13MileWashB-1B-01 | 0.0675 | 56.26 | 01Jan3000, 13:30 | 4.34 |
| R_13MileWashB-1C-01 | 0.0593 | 53.4 | 01Jan3000, 13:30 | 3.15 |
| R_13MileWashC-01 | 33.7736 | 5906.93 | 01Jan3000, 15:25 | 1876.95 |
| R_13MileWashC-02 | 18.1527 | 3138.32 | 01Jan3000, 15:50 | 1075.33 |
| R_13MileWashC-03 | 5.3401 | 661.86 | 01Jan3000, 16:15 | 200.29 |
| R_CerbTrib1A-01 | 0.8467 | 208.58 | 01Jan3000, 14:55 | 47.29 |
| R_Cerbat-01 | 16.0542 | 2018.08 | 01Jan3000, 16:45 | 857.6 |
| R_Cerbat-02 | 10.083 | 1442.83 | 01Jan3000, 16:45 | 521.26 |
| Trib1A U/S of Main | 1.3752 | 325.94 | 01Jan3000, 14:00 | 81.25 |
| Wash B @ SR 68 | 6.4185 | 1353.81 | 01Jan3000, 14:55 | 340.8 |
| Wash C @SR68 | 5.3401 | 1206.34 | 01Jan3000, 14:40 | 262.61 |
| Wash-03-out | 5.8771 | 1653.4 | 01Jan3000, 15:25 | 366.4 |

**Golden Valley Ranch
Technical Drainage Study**

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| WashA-01-out | 6.0142 | 1151.65 | 01Jan3000, 15:30 | 336.01 |
| WashA@SR68 | 4.8114 | 976.54 | 01Jan3000, 15:00 | 268.36 |
| WashB-01-out | 14.4922 | 2680.33 | 01Jan3000, 15:55 | 795.25 |
| WashB-02-out | 13.0052 | 2511.88 | 01Jan3000, 15:40 | 709.51 |
| WashB-04-out | 6.4634 | 1354.36 | 01Jan3000, 15:15 | 342.96 |
| WashB-1A-1-out | 1.0682 | 401.46 | 01Jan3000, 14:05 | 63.86 |
| WashB-1A@SR68 | 0.1314 | 68.79 | 01Jan3000, 13:40 | 8.81 |
| WashC-02-out | 19.948 | 3370.88 | 01Jan3000, 15:45 | 1177.7 |
| WashC-03-out | 6.4934 | 787.84 | 01Jan3000, 15:50 | 264.64 |
| WashCmisc01-out | 18.1527 | 3179.5 | 01Jan3000, 15:20 | 1075.43 |
| WshB-03-out | 6.934 | 1373.17 | 01Jan3000, 15:40 | 370.47 |
| WshB-1B-01-out | 0.0675 | 56.96 | 01Jan3000, 13:25 | 4.34 |
| WshB-1C-01 | 0.4695 | 195.77 | 01Jan3000, 13:50 | 29.71 |
| WshB-1C-01-out | 0.0593 | 54.12 | 01Jan3000, 13:20 | 3.15 |
| WshB1-C1-A02-out | 0.4695 | 195.77 | 01Jan3000, 13:50 | 29.71 |
| WshB1A-02-OUT | 0.2955 | 128.61 | 01Jan3000, 14:00 | 19.14 |
| WshC-01-out | 33.7736 | 5909.08 | 01Jan3000, 15:15 | 1877.04 |
| wash-04@SR-out | 4.2919 | 1417.68 | 01Jan3000, 14:45 | 280.85 |

Golden Valley Ranch Technical Drainage Study



Golden Valley Ranch Technical Drainage Study

Project: Junction Q 100yr-24
Description: Basin: Junction Q & Met: Junction Q 100yr-24 & Control: Control 1

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| 13 U/S of C | 21.152 | 4011.75 | 01Jan3000, 15:55 | 1158.1 |
| 13MileWash-01 | 0.0215 | 13.72 | 01Jan3000, 13:20 | 1.04 |
| 13MileWash-02 | 0.7827 | 170.48 | 01Jan3000, 14:30 | 43.04 |
| 13MileWash-03 | 1.5852 | 302.7 | 01Jan3000, 14:45 | 82.01 |
| 13MileWash-04 | 4.2919 | 843.06 | 01Jan3000, 14:45 | 210.4 |
| 13MileWashA-01 | 1.2028 | 227.89 | 01Jan3000, 14:40 | 65.2 |
| 13MileWashA-02 | 4.8114 | 941.2 | 01Jan3000, 15:00 | 258.58 |
| 13MileWashB-01 | 0.4188 | 102.36 | 01Jan3000, 14:10 | 21.01 |
| 13MileWashB-02 | 0.057 | 39.67 | 01Jan3000, 13:25 | 2.91 |
| 13MileWashB-03 | 0.3592 | 172.09 | 01Jan3000, 13:45 | 19.75 |
| 13MileWashB-04 | 0.0449 | 24.65 | 01Jan3000, 13:20 | 1.96 |
| 13MileWashB-05 | 6.4185 | 1302.95 | 01Jan3000, 14:55 | 327.91 |
| 13MileWashB-1A-01 | 0.5987 | 207.52 | 01Jan3000, 14:00 | 32.89 |
| 13MileWashB-1A-02 | 0.1641 | 73.01 | 01Jan3000, 13:40 | 9.97 |
| 13MileWashB-1A-03 | 0.1314 | 66.76 | 01Jan3000, 13:40 | 8.52 |
| 13MileWashB-1B-01 | 0.0439 | 42.86 | 01Jan3000, 13:20 | 2.6 |
| 13MileWashB-1B-02 | 0.0675 | 55.3 | 01Jan3000, 13:25 | 4.19 |
| 13MileWashB-1C-01 | 0.1147 | 54.12 | 01Jan3000, 13:35 | 7.17 |
| 13MileWashB-1C-02 | 0.0593 | 52.33 | 01Jan3000, 13:20 | 3.03 |
| 13MileWashC-01 | 0.0375 | 18.57 | 01Jan3000, 13:25 | 1.64 |
| 13MileWashC-02 | 1.7953 | 479.21 | 01Jan3000, 14:30 | 98.73 |
| 13MileWashC-03 | 1.1533 | 274.8 | 01Jan3000, 14:25 | 62 |
| 13MileWashC-04 | 5.3401 | 1161.9 | 01Jan3000, 14:40 | 252.9 |
| 13MileWashCmisc-01 | 13.8256 | 2675.41 | 01Jan3000, 15:15 | 674.39 |
| 13MileWashCmisc-02 | 11.6593 | 2463.74 | 01Jan3000, 15:05 | 585.62 |
| 13MileWashE-01 | 1.0617 | 385.5 | 01Jan3000, 14:20 | 75.93 |
| 13MileWashE-02 | 0.357 | 62.07 | 01Jan3000, 14:45 | 15.12 |
| 13MileWashE-03 | 0.357 | 153.59 | 01Jan3000, 13:40 | 15.12 |
| 13mile-01-out | 0.0215 | 13.61 | 01Jan3000, 13:35 | 1.05 |
| 2900ft D/S of SR68 | 10.083 | 1391.97 | 01Jan3000, 15:45 | 506.33 |
| 6-02Out | 21.8989 | 2731.68 | 01Jan3000, 16:55 | 1155.21 |
| 6C-03Out | 0.4592 | 222.6 | 01Jan3000, 13:45 | 30.75 |
| 6D-01Out | 0.7264 | 268.93 | 01Jan3000, 14:10 | 53.77 |
| CebatTrib1A-01 | 0.5285 | 285 | 01Jan3000, 13:50 | 32.84 |
| CebatTrib1A-02 | 0.8467 | 201.48 | 01Jan3000, 14:20 | 45.52 |
| Cerbat-01 | 0.9269 | 309.48 | 01Jan3000, 14:10 | 52.16 |
| Cerbat-02 | 3.6691 | 641.6 | 01Jan3000, 15:15 | 197.07 |
| Cerbat-03 | 10.083 | 1391.97 | 01Jan3000, 15:45 | 506.33 |
| Conf-B1-B-03-out | 6.5748 | 1307 | 01Jan3000, 15:15 | 336.79 |
| ConfB-1B-01-out | 0.1114 | 87.61 | 01Jan3000, 13:25 | 6.8 |
| Confl -13Mil-C | 71.0388 | 11408.63 | 01Jan3000, 15:55 | 3839.76 |
| Confl A-B | 12.9482 | 2415.08 | 01Jan3000, 15:35 | 680.34 |
| Confl-B-wash3 | 20.3693 | 3943.51 | 01Jan3000, 15:30 | 1115.56 |
| ConflB02-B1-A | 14.0734 | 2536.21 | 01Jan3000, 15:40 | 744.87 |
| Diversion_C | 5.3401 | 657 | 01Jan3000, 14:40 | 195.9 |
| End of Trib6C | 1.6596 | 570.87 | 01Jan3000, 14:50 | 117.36 |
| EndWashC | 33.8111 | 5696.33 | 01Jan3000, 15:25 | 1854.32 |
| HM-Div03 | 57.1654 | 5235.23 | 01Jan3000, 15:00 | 2451.43 |

**Golden Valley Ranch
Technical Drainage Study**

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| HM_Div01 | 57.1654 | 4030 | 01Jan3000, 18:25 | 2155.73 |
| HM_Div02 | 57.1654 | 4141 | 01Jan3000, 16:10 | 2208.02 |
| HolyMosesA-01 | 3.3 | 636.34 | 01Jan3000, 14:50 | 141.79 |
| HolyMosesA-02 | 1.2132 | 494.7 | 01Jan3000, 14:05 | 61.68 |
| HolyMosesA-03 | 3.8747 | 1133.57 | 01Jan3000, 14:15 | 177.08 |
| HolyMosesA-04 | 8.2644 | 1447.28 | 01Jan3000, 15:20 | 444.29 |
| HolyMosesA-05 | 4.2697 | 1010.7 | 01Jan3000, 14:35 | 193.74 |
| HolyMosesA-06 | 8.149 | 1562.96 | 01Jan3000, 15:15 | 451.56 |
| HolyMosesA-07 | 13.3273 | 2315.69 | 01Jan3000, 15:20 | 626.3 |
| HolyMosesA-08 | 19.2803 | 3074.74 | 01Jan3000, 16:00 | 1107.02 |
| J-HolyMoses-01 | 57.1654 | 8422.08 | 01Jan3000, 16:15 | 2993.43 |
| J-HolyMoses-02 | 53.2907 | 8426.42 | 01Jan3000, 15:45 | 2820.17 |
| J-HolyMoses-03 | 45.0263 | 7188.73 | 01Jan3000, 15:30 | 2377.8 |
| J-HolyMoses-04 | 32.6076 | 5255.69 | 01Jan3000, 15:35 | 1733.32 |
| J-M | 72.8145 | 11478.95 | 01Jan3000, 16:05 | 3963.12 |
| J-N | 134.4931 | 11578.25 | 01Jan3000, 16:55 | 6191.6 |
| J-Q | 274.9937 | 21487.04 | 01Jan3000, 17:55 | 13527.32 |
| J-SacWash-01 | 133.9649 | 10421.39 | 01Jan3000, 21:25 | 7256.87 |
| J-SacWash-02 | 129.1579 | 10449.53 | 01Jan3000, 21:05 | 7046.22 |
| J-SacWash-03 | 106.1743 | 9953.01 | 01Jan3000, 20:10 | 5969.66 |
| J-SacWash-04 | 104.0491 | 10064.92 | 01Jan3000, 19:25 | 5893.34 |
| J-SacWash-05 | 86.6442 | 9032.19 | 01Jan3000, 19:20 | 4947.55 |
| J-SacWash-06 | 70.4152 | 8919.01 | 01Jan3000, 19:00 | 4019.25 |
| J-SacWash-07 | 65.2222 | 8770.78 | 01Jan3000, 18:25 | 3680.66 |
| J-SacWash-08 | 54.9677 | 8879.69 | 01Jan3000, 16:20 | 3124.79 |
| J-SacWash-09 | 32.1654 | 6464.67 | 01Jan3000, 16:15 | 1975.03 |
| J_D/S_SacTrib6-01 | 22.561 | 2787.91 | 01Jan3000, 16:55 | 1201.08 |
| J_D/S_SacTrib6-02 | 22.5341 | 2788.93 | 01Jan3000, 16:50 | 1201.27 |
| J_D/S_SacTrib6-03 | 21.8473 | 2732.42 | 01Jan3000, 16:50 | 1153.89 |
| J_D/S_SacTrib6-04 | 19.9542 | 2566.43 | 01Jan3000, 16:35 | 1027.33 |
| J_D/S_SacTrib6C-01 | 1.3683 | 508.65 | 01Jan3000, 14:25 | 97.85 |
| J_D/S_SacTrib6C-02 | 1.1856 | 466.69 | 01Jan3000, 14:00 | 84.52 |
| J_U/S_CerTrb1A-01 | 0.8467 | 201.48 | 01Jan3000, 14:20 | 45.52 |
| J_U/S_Cerb-01 | 16.0542 | 1943.82 | 01Jan3000, 16:15 | 829.65 |
| Main U/S of Trib1A | 13.7521 | 1773.68 | 01Jan3000, 16:30 | 699.09 |
| Offsite H | 58.3786 | 4030 | 01Jan3000, 20:25 | 2198 |
| R-13MileWashE-01 | 71.0388 | 11238.83 | 01Jan3000, 16:05 | 3837.93 |
| R-13MileWashE-03 | 0.357 | 77.44 | 01Jan3000, 16:00 | 15.12 |
| R-Div01 | 0 | 109.73 | 01Jan3000, 20:00 | 19 |
| R-Div02 | 0 | 857.07 | 01Jan3000, 20:15 | 235.54 |
| R-HM_Div01 | 57.1654 | 4030 | 01Jan3000, 20:25 | 2136.33 |
| R-HM_Div02 | 57.1654 | 4140.54 | 01Jan3000, 19:45 | 2174.73 |
| R-HM_Div03 | 57.1654 | 5133.22 | 01Jan3000, 18:20 | 2443.56 |
| R-J-HolyMoses-02 | 53.2907 | 8262.52 | 01Jan3000, 16:20 | 2816.35 |
| R-J-HolyMoses-03 | 45.0263 | 7091.18 | 01Jan3000, 15:55 | 2375.88 |
| R-J-HolyMoses-04 | 32.6076 | 5243.37 | 01Jan3000, 15:50 | 1732.5 |
| R-J-SacWash-01 | 133.9649 | 10419.38 | 01Jan3000, 21:35 | 7155.66 |
| R-J-SacWash-02 | 129.1579 | 10421.39 | 01Jan3000, 21:25 | 6986.38 |
| R-J-SacWash-03 | 106.1743 | 9765.44 | 01Jan3000, 21:15 | 5821.72 |
| R-J-SacWash-04 | 104.0491 | 9938.74 | 01Jan3000, 20:10 | 5837.61 |

**Golden Valley Ranch
Technical Drainage Study**

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|---------------------|--------------------------|-------------------------|------------------|----------------|
| R-J-SacWash-05 | 86.6442 | 8967.86 | 01Jan3000, 19:35 | 4934.11 |
| R-J-SacWash-06 | 70.4152 | 8859.6 | 01Jan3000, 19:20 | 4004.88 |
| R-J-SacWash-07 | 65.2222 | 8714.54 | 01Jan3000, 19:05 | 3659.58 |
| R-J-SacWash-08 | 32.1654 | 6372.82 | 01Jan3000, 16:35 | 1974.03 |
| R-J-SacWash-09 | 54.9677 | 8172.32 | 01Jan3000, 18:30 | 3088.75 |
| R-JL | 72.8145 | 11110.4 | 01Jan3000, 16:55 | 3952.86 |
| R-JM | 134.4931 | 11287.9 | 01Jan3000, 18:00 | 6057.66 |
| R-OffsiteH | 58.3786 | 4025.06 | 01Jan3000, 21:35 | 2096.96 |
| R-SacWashA-11 | 13.9298 | 3626.03 | 01Jan3000, 16:25 | 964.8 |
| R-SacWashB-01 | 14.1515 | 1655.02 | 01Jan3000, 17:30 | 741.09 |
| R-SacWashD-01 | 5.3076 | 1895.38 | 01Jan3000, 14:35 | 298.18 |
| R-SacWashE-01 | 2.0957 | 591.19 | 01Jan3000, 15:50 | 103.72 |
| R_13Mile-01 | 0.0215 | 13.61 | 01Jan3000, 13:35 | 1.05 |
| R_13Mile-02 | 20.3693 | 3921.37 | 01Jan3000, 16:00 | 1115.05 |
| R_13Mile-03 | 4.2919 | 1343.42 | 01Jan3000, 15:25 | 267.7 |
| R_13MileWashA-01 | 4.8114 | 938.59 | 01Jan3000, 15:30 | 258.6 |
| R_13MileWashB-01 | 14.0734 | 2532.41 | 01Jan3000, 15:55 | 744.84 |
| R_13MileWashB-02 | 12.9482 | 2413.13 | 01Jan3000, 15:40 | 680.33 |
| R_13MileWashB-03 | 6.5748 | 1303.48 | 01Jan3000, 15:45 | 336.79 |
| R_13MileWashB-04 | 6.4185 | 1302.73 | 01Jan3000, 15:15 | 328.03 |
| R_13MileWashB-1A-01 | 0.4695 | 188.91 | 01Jan3000, 14:15 | 28.74 |
| R_13MileWashB-1A-02 | 0.1314 | 66.5 | 01Jan3000, 14:05 | 8.53 |
| R_13MileWashB-1B-01 | 0.0675 | 54.6 | 01Jan3000, 13:30 | 4.2 |
| R_13MileWashB-1C-01 | 0.0593 | 51.63 | 01Jan3000, 13:30 | 3.04 |
| R_13MileWashC-01 | 33.7736 | 5695.1 | 01Jan3000, 15:25 | 1852.67 |
| R_13MileWashC-02 | 18.1527 | 3033 | 01Jan3000, 15:50 | 1079.58 |
| R_13MileWashC-03 | 5.3401 | 656.67 | 01Jan3000, 16:15 | 196.2 |
| R_CerbTrib1A-01 | 0.8467 | 201.1 | 01Jan3000, 14:55 | 45.56 |
| R_Cerbat-01 | 16.0542 | 1942.77 | 01Jan3000, 16:45 | 826.3 |
| R_Cerbat-02 | 10.083 | 1389.85 | 01Jan3000, 16:45 | 502.02 |
| R_SacTrib6-01 | 22.5341 | 2787.91 | 01Jan3000, 16:55 | 1199.89 |
| R_SacTrib6-02 | 21.8473 | 2731.68 | 01Jan3000, 16:55 | 1152.8 |
| R_SacTrib6-03 | 19.9542 | 2563.92 | 01Jan3000, 16:55 | 1024.61 |
| R_SacTrib6-04 | 19.5342 | 2553.27 | 01Jan3000, 16:35 | 1006.38 |
| R_SacTrib6C-01 | 1.3683 | 507.21 | 01Jan3000, 14:50 | 97.91 |
| R_SacTrib6C-02 | 1.1856 | 464.96 | 01Jan3000, 14:30 | 84.6 |
| R_SacTrib6C-03 | 0.2518 | 114.07 | 01Jan3000, 14:00 | 16.9 |
| R_SacTrib6D-01 | 0.4351 | 163.61 | 01Jan3000, 14:15 | 32.21 |
| SacTrib6-01 | 0.0269 | 15.93 | 01Jan3000, 13:20 | 1.2 |
| SacTrib6-02 | 0.0516 | 39.75 | 01Jan3000, 13:20 | 2.41 |
| SacTrib6-03 | 0.2335 | 82.78 | 01Jan3000, 13:50 | 11.92 |
| SacTrib6-04 | 0.42 | 147.7 | 01Jan3000, 13:55 | 20.95 |
| SacTrib6-05 | 19.5342 | 2553.68 | 01Jan3000, 16:20 | 1009.03 |
| SacTrib6C-01 | 0.2913 | 130.17 | 01Jan3000, 13:50 | 19.45 |
| SacTrib6C-02 | 0.1827 | 133.64 | 01Jan3000, 13:35 | 13.25 |
| SacTrib6C-03 | 0.2074 | 139.34 | 01Jan3000, 13:35 | 13.85 |
| SacTrib6C-04 | 0.2518 | 114.84 | 01Jan3000, 13:50 | 16.88 |
| SacTrib6D-01 | 0.2913 | 111.31 | 01Jan3000, 14:00 | 21.56 |
| SacTrib6D-02 | 0.4351 | 164.23 | 01Jan3000, 14:05 | 32.2 |
| SacTrib6misc-01 | 0.6352 | 197.09 | 01Jan3000, 14:20 | 46.06 |

**Golden Valley Ranch
Technical Drainage Study**

| Hydrologic Element | Drainage Area (sq mi) | Peak Discharge (cfs) | Time of Peak | Volume (ac-ft) |
|--------------------|--------------------------|-------------------------|------------------|----------------|
| SacWashA-01 | 4.44 | 883.82 | 01Jan3000, 14:50 | 210.28 |
| SacWashA-02 | 4.807 | 1260.14 | 01Jan3000, 14:50 | 270.49 |
| SacWashA-03 | 0.4226 | 155.1 | 01Jan3000, 14:00 | 23.42 |
| SacWashA-04 | 2.1252 | 633.33 | 01Jan3000, 14:35 | 132.06 |
| SacWashA-05 | 3.2534 | 982.5 | 01Jan3000, 14:45 | 218.15 |
| SacWashA-06 | 1.0804 | 362.23 | 01Jan3000, 14:15 | 62.17 |
| SacWashA-07 | 9.841 | 2273.59 | 01Jan3000, 15:15 | 582.32 |
| SacWashA-08 | 5.193 | 1258.58 | 01Jan3000, 15:05 | 359.68 |
| SacWashA-09 | 10.2545 | 1756.84 | 01Jan3000, 15:40 | 591.91 |
| SacWashA-10 | 2.7732 | 725.79 | 01Jan3000, 14:40 | 155.8 |
| SacWashA-11 | 13.9298 | 3839.49 | 01Jan3000, 15:15 | 964.8 |
| SacWashA-12 | 18.2356 | 2940.76 | 01Jan3000, 15:55 | 1010.23 |
| SacWashB-01 | 5.3076 | 1972.61 | 01Jan3000, 14:15 | 298.18 |
| SacWashC-01 | 10.3994 | 1290.71 | 01Jan3000, 16:00 | 525.88 |
| SacWashC-02 | 9.6297 | 1341.96 | 01Jan3000, 15:35 | 469.08 |
| SacWashD-01 | 14.1515 | 1714.1 | 01Jan3000, 16:25 | 753.74 |
| SacWashE-01 | 2.0957 | 832.76 | 01Jan3000, 14:05 | 103.72 |
| T6 U/S of T6C | 20.1877 | 2569.96 | 01Jan3000, 16:55 | 1036.53 |
| Trib 6C - LODS | 0.2518 | 114.84 | 01Jan3000, 13:50 | 16.88 |
| Trib 6D - LODS | 0.4351 | 164.23 | 01Jan3000, 14:05 | 32.2 |
| Trib1A U/S of Main | 1.3752 | 313.99 | 01Jan3000, 14:00 | 78.4 |
| Trib6 @ Hwy68 | 19.5342 | 2553.68 | 01Jan3000, 16:20 | 1009.03 |
| Wash B @ SR 68 | 6.4185 | 1302.95 | 01Jan3000, 14:55 | 327.91 |
| Wash C @SR68 | 5.3401 | 1161.9 | 01Jan3000, 14:40 | 252.9 |
| Wash-03-out | 5.8771 | 1578.46 | 01Jan3000, 15:25 | 349.71 |
| WashA-01-out | 6.0142 | 1111.48 | 01Jan3000, 15:25 | 323.8 |
| WashA@SR68 | 4.8114 | 941.2 | 01Jan3000, 15:00 | 258.58 |
| WashB-01-out | 14.4922 | 2571.12 | 01Jan3000, 15:55 | 765.85 |
| WashB-02-out | 13.0052 | 2413.67 | 01Jan3000, 15:40 | 683.24 |
| WashB-04-out | 6.4634 | 1304.17 | 01Jan3000, 15:15 | 329.99 |
| WashB-1A-1-out | 1.0682 | 387.28 | 01Jan3000, 14:05 | 61.63 |
| WashB-1A@SR68 | 0.1314 | 66.76 | 01Jan3000, 13:40 | 8.52 |
| WashC-02-out | 19.948 | 3249.04 | 01Jan3000, 15:50 | 1178.31 |
| WashC-03-out | 6.4934 | 777.55 | 01Jan3000, 15:50 | 258.2 |
| WashCmisc01-out | 18.1527 | 3065.08 | 01Jan3000, 15:20 | 1079.37 |
| WshB-03-out | 6.934 | 1320.56 | 01Jan3000, 15:40 | 356.55 |
| WshB-1B-01-out | 0.0675 | 55.3 | 01Jan3000, 13:25 | 4.19 |
| WshB-1C-01 | 0.4695 | 189.03 | 01Jan3000, 13:55 | 28.7 |
| WshB-1C-01-out | 0.0593 | 52.33 | 01Jan3000, 13:20 | 3.03 |
| WshB1-C1-A02-out | 0.4695 | 189.03 | 01Jan3000, 13:55 | 28.7 |
| WshB1A-02-OUT | 0.2955 | 124.39 | 01Jan3000, 14:00 | 18.5 |
| WshC-01-out | 33.7736 | 5696.64 | 01Jan3000, 15:15 | 1852.7 |
| wash-04@SR-out | 4.2919 | 1347.85 | 01Jan3000, 14:45 | 267.41 |

**Golden Valley Ranch
Technical Drainage Study**

| Area (sq mi) | Area1 | BASIN_TXT | Dtheta | PSIF | XKSAT |
|--------------|--------------|---------------------|--------|------|-------|
| 0.0215 | 598820.46 | 13MileWash-01 | 0.35 | 4.8 | 0.27 |
| 0.7827 | 21820460.19 | 13MileWash-02 | 0.39 | 5.8 | 0.16 |
| 1.5852 | 44191903.32 | 13MileWash-03 | 0.38 | 5.4 | 0.20 |
| 4.2919 | 119652267.53 | 13MileWash-04 | 0.35 | 4.9 | 0.26 |
| 1.2028 | 33531280.91 | 13MileWashA-01 | 0.39 | 5.6 | 0.17 |
| 4.8114 | 134135050.33 | 13MileWashA-02 | 0.38 | 5.5 | 0.18 |
| 0.4188 | 11674517.76 | 13MileWashB-01 | 0.36 | 5.2 | 0.23 |
| 0.0570 | 1590415.47 | 13MileWashB-02 | 0.37 | 5.4 | 0.21 |
| 0.3592 | 10014036.65 | 13MileWashB-03 | 0.39 | 5.8 | 0.16 |
| 0.0449 | 1251457.27 | 13MileWashB-04 | 0.35 | 4.1 | 0.38 |
| 6.4185 | 178938740.34 | 13MileWashB-05 | 0.37 | 5.4 | 0.21 |
| 0.5987 | 16692069.69 | 13MileWashB-1A-01 | 0.4 | 6.2 | 0.15 |
| 0.1641 | 4573520.84 | 13MileWashB-1A-02 | 0.35 | 7 | 0.11 |
| 0.1314 | 3664221.00 | 13MileWashB-1A-03 | 0.32 | 7.5 | 0.09 |
| 0.0439 | 1222874.48 | 13MileWashB-1B-01 | 0.37 | 6.6 | 0.12 |
| 0.0675 | 1882302.92 | 13MileWashB-1B-02 | 0.35 | 7.2 | 0.10 |
| 0.1147 | 3198738.21 | 13MileWashB-1C-01 | 0.35 | 7 | 0.10 |
| 0.0593 | 1654372.26 | 13MileWashB-1C-02 | 0.36 | 5.2 | 0.22 |
| 0.0375 | 1046016.37 | 13MileWashC-01 | 0.35 | 4.2 | 0.37 |
| 1.7953 | 50050905.12 | 13MileWashC-02 | 0.39 | 5.8 | 0.16 |
| 1.1533 | 32152693.93 | 13MileWashC-03 | 0.39 | 5.8 | 0.17 |
| 5.3401 | 148873841.13 | 13MileWashC-04 | 0.35 | 4.5 | 0.30 |
| 13.8253 | 385428429.67 | 13MileWashCmisc-01 | 0.35 | 4.6 | 0.28 |
| 11.6593 | 325043962.49 | 13MileWashCmisc-02 | 0.35 | 5 | 0.24 |
| 0.9269 | 25841320.16 | Cerbat-01 | 0.4 | 6.2 | 0.14 |
| 3.6691 | 102289951.81 | Cerbat-02 | 0.38 | 5.5 | 0.18 |
| 10.0830 | 281098232.37 | cerbat-03 | 0.36 | 5 | 0.23 |
| 0.5285 | 14734078.89 | CerbatTrib1A-01 | 0.35 | 7.2 | 0.10 |
| 0.8467 | 23604562.69 | CerbatTribA-02 | 0.39 | 5.8 | 0.17 |
| 0.0269 | 751192.67 | SacTrib6-01 | 0.35 | 4.2 | 0.36 |
| 0.0516 | 1439773.07 | SacTrib6-02 | 0.35 | 4.5 | 0.31 |
| 0.2335 | 6510759.79 | SacTrib6-03 | 0.36 | 5.2 | 0.22 |
| 0.4200 | 11708838.00 | SacTrib6-04 | 0.36 | 5 | 0.24 |
| 19.5342 | 544582702.21 | SacTrib6-05 | 0.37 | 5.4 | 0.20 |
| 0.2913 | 8119810.41 | SacTrib6C-01 | 0.305 | 7.9 | 0.08 |
| 0.1827 | 5092941.65 | SacTrib6C-02 | 0.29 | 8.4 | 0.06 |
| 0.2074 | 5781644.19 | SacTrib6C-03 | 0.305 | 7.9 | 0.08 |
| 0.2518 | 7020344.16 | SacTrib6C-04 | 0.32 | 7.5 | 0.08 |
| 0.2913 | 8120158.58 | Sactrib6D-01 | 0.27 | 8.2 | 0.06 |
| 0.4351 | 12130144.53 | SacTrib6D-02 | 0.27 | 8.2 | 0.06 |
| 0.6352 | 17707406.05 | SacTrib6misc-01 | 0.29 | 8.4 | 0.06 |
| 0.3570 | 9951908.11 | 13MileWashE-03 | 0.35 | 4.1 | 0.40 |
| 1.2132 | 33823072.41 | MolyMosesA-02 | 0.35 | 4.9 | 0.25 |
| 3.8747 | 108020770.80 | HolyMosesA-03 | 0.35 | 4.4 | 0.33 |
| 7.8524 | 218911672.67 | HolyMosesA-04 | 0.39 | 5.8 | 0.17 |
| 4.2697 | 119031114.50 | HolyMosesA-05 | 0.35 | 4.3 | 0.34 |
| 13.3273 | 371544655.60 | HolyMosesA-07 | 0.35 | 4.4 | 0.31 |
| 1.1335 | 31599959.82 | Offsite Diverted-01 | 0.36 | 5.2 | 0.23 |
| 0.1161 | 3237668.17 | Offsite Diverted-02 | 0.37 | 5.3 | 0.21 |
| 4.8070 | 134011258.03 | SacWashA-02 | 0.4 | 6.2 | 0.14 |
| 0.4226 | 11782476.84 | SacWashA-03 | 0.4 | 6 | 0.15 |

**Golden Valley Ranch
Technical Drainage Study**

| Area (sq mi) | Area1 | BASIN_TXT | Dtheta | PSIF | XKSAT |
|--------------|--------------|----------------|--------|------|-------|
| 2.1252 | 59246948.06 | SacWashA-04 | 0.35 | 7.2 | 0.10 |
| 3.2534 | 90699043.03 | SacWashA-05 | 0.32 | 7.5 | 0.08 |
| 1.0804 | 30119664.05 | SacWashA-06 | 0.39 | 6.4 | 0.13 |
| 9.8410 | 274352090.03 | SacWashA-07 | 0.36 | 6.8 | 0.12 |
| 8.1490 | 227180971.21 | HolyMosesA-06 | 0.4 | 6 | 0.15 |
| 5.1930 | 144771184.51 | SacWashA08 | 0.305 | 7.9 | 0.07 |
| 8.2644 | 230397565.60 | HolyMosesA-04 | 0.39 | 5.8 | 0.17 |
| 10.2545 | 285879402.73 | SacWashA-09 | 0.37 | 6.6 | 0.13 |
| 2.7732 | 77312465.22 | SacWashA-10 | 0.39 | 6.4 | 0.14 |
| 13.9298 | 388340569.95 | SacWashA-11 | 0.305 | 7.9 | 0.07 |
| 18.2356 | 508380337.44 | SacWashA-12 | 0.4 | 6 | 0.15 |
| 5.3076 | 147968686.67 | SacWashB-01 | 0.39 | 6.4 | 0.14 |
| 10.3994 | 289918143.24 | SacWashC-01 | 0.38 | 5.4 | 0.20 |
| 9.6297 | 268461945.80 | SacWashC-02 | 0.35 | 4.9 | 0.26 |
| 14.1515 | 394520757.54 | SacWashD-01 | 0.39 | 5.8 | 0.16 |
| 1.0617 | 29599748.90 | 13MileWashE-01 | 0.305 | 7.9 | 0.08 |
| 19.2803 | 537503459.73 | HolyMosesA-08 | 0.4 | 6 | 0.16 |
| 2.0957 | 58425519.68 | SacWashE-01 | 0.35 | 5 | 0.25 |
| 3.2959 | 91885234.73 | HolyMosesA_01 | 0.35 | 4.1 | 0.39 |
| 4.4406 | 123797707.70 | SacWashA_01 | 0.35 | 4.5 | 0.30 |
| 1.9345 | 53931988.07 | 13MileWashD_02 | 0.35 | 4.1 | 0.40 |

Golden Valley Ranch Technical Drainage Study

| cokey | | chkey | | Soil Texture | | Confining layer | XKSAT |
|--------|---------|--------|---------|------------------------------------|----------|-----------------|-------|
| 754424 | 1116253 | 754424 | 3173094 | gravelly sandy loam | GR-SL | GR-SL | 0.4 |
| 754424 | 1116253 | 754424 | 3173095 | very gravelly sandy clay loam | GRV-SCL | | |
| 754424 | 1116253 | 754424 | 3560131 | weathered bedrock | WB | | |
| 754424 | 1116253 | 754424 | 3891879 | weathered bedrock | WB | | |
| 754435 | 1116260 | 754435 | 3173380 | gravelly sandy loam | GR-SL | GR-SL | 0.4 |
| 754435 | 1116260 | 754435 | 3173379 | extremely gravelly sandy loam | GRX-SL | | |
| 754435 | 1116260 | 754435 | 3173378 | very cobbly sandy clay loam | CBV-SCL | | |
| 754435 | 1116260 | 754435 | 3560132 | weathered bedrock | WB | | |
| 754435 | 1144848 | 754435 | 3306758 | very gravelly sandy loam | GRV-SL | GRV-SL | 0.4 |
| 754435 | 1144848 | 754435 | 3306757 | extremely cobbly sandy loam | CBX-SL | | |
| 754435 | 1144848 | 754435 | 3560133 | weathered bedrock | WB | | |
| 754435 | 1144848 | 754435 | 3560103 | unweathered bedrock | UWB | | |
| 754484 | 1116687 | 754484 | 3169552 | extremely cobbly loam | CBX-L | CBX-L | 0.25 |
| 754484 | 1116687 | 754484 | 3169553 | extremely cobbly loam | CBX-L | | |
| 754484 | 1116687 | 754484 | 3560100 | unweathered bedrock | UWB | | |
| 754484 | 1130129 | 754484 | 3226835 | extremely cobbly loam | CBX-L | CBX-L | 0.25 |
| 754484 | 1130129 | 754484 | 3226834 | very cobbly loam | CBV-L | | |
| 754484 | 1130129 | 754484 | 3226833 | extremely cobbly clay loam | CBX-CL | | |
| 754484 | 1130129 | 754484 | 3560039 | cemented | CEM | | |
| 754484 | 1130129 | 754484 | 3560130 | weathered bedrock | WB | | |
| 754484 | 1130129 | 754484 | 3560102 | unweathered bedrock | UWB | | |
| 754484 | 1146142 | 754484 | 3322099 | extremely gravelly sandy clay loam | GRX-SCL | CBV-CL | 0.04 |
| 754484 | 1146142 | 754484 | 3322100 | very cobbly clay loam | CBV-CL | | |
| 754484 | 1146142 | 754484 | 3322101 | extremely stony clay loam | STX-CL | | |
| 754484 | 1146142 | 754484 | 3560101 | unweathered bedrock | UWB | | |
| 755184 | 1117396 | 755184 | 3359183 | cobbly loam | CB-L | GRV-CL | 0.04 |
| 755184 | 1117396 | 755184 | 3359184 | very gravelly clay loam | GRV-CL | | |
| 755184 | 1117396 | 755184 | 3359185 | very gravelly sandy clay loam | GRV-SCL | | |
| 755184 | 1117396 | 755184 | 3359186 | very gravelly coarse sandy loam | GRV-COSL | | |
| 755184 | 1117396 | 755184 | 3359187 | very gravelly loamy coarse sand | GRV-LCOS | | |
| 755184 | 1117397 | 755184 | 3184595 | very gravelly sandy loam | GRV-SL | STV-SCL | 0.06 |
| 755184 | 1117397 | 755184 | 3184594 | very stony sandy clay loam | STV-SCL | | |
| 755184 | 1117397 | 755184 | 3184593 | very gravelly clay loam | GRV-CL | | |
| 755184 | 1117397 | 755184 | 3184592 | very gravelly sandy clay loam | GRV-SCL | | |
| 755184 | 1117397 | 755184 | 3184591 | very gravelly coarse sandy loam | GRV-COSL | | |
| 755184 | 1117397 | 755184 | 3560042 | cemented | CEM | | |
| 755705 | 1117595 | 755705 | 3175899 | gravelly sandy loam | GR-SL | GR-SL | 0.4 |
| 755705 | 1117595 | 755705 | 3175898 | gravelly sandy loam | GR-SL | | |
| 755705 | 1117595 | 755705 | 3175897 | very gravelly sandy clay loam | GRV-SCL | | |
| 755705 | 1117595 | 755705 | 3175896 | very gravelly sandy clay loam | GRV-SCL | | |
| 755705 | 1117595 | 755705 | 3175895 | very cobbly sandy loam | CBV-SL | | |
| 755705 | 1117596 | 755705 | 3175471 | very gravelly sandy loam | GRV-SL | GRV-SL | 0.4 |
| 755705 | 1117596 | 755705 | 3175485 | very gravelly sandy loam | GRV-SL | | |
| 755705 | 1117596 | 755705 | 3175486 | very gravelly sandy clay loam | GRV-SCL | | |
| 755705 | 1117596 | 755705 | 3175487 | very gravelly sandy loam | GRV-SL | | |
| 755705 | 1117596 | 755705 | 3175488 | very gravelly sandy loam | GRV-SL | | |
| 755705 | 1117596 | 755705 | 3175497 | extremely gravelly sandy loam | GRX-SL | | |

Golden Valley Ranch Technical Drainage Study

| cokey | | chkey | | Soil Texture | | Confining layer | XKSAT |
|---------|---------|---------|---------|---------------------------------|----------|-----------------|-------|
| 755705 | 1144905 | 755705 | 3309054 | gravelly sandy loam | GR-SL | GR-SL | 0.4 |
| 755705 | 1144905 | 755705 | 3309055 | very cobbly sandy loam | CBV-SL | | |
| 755705 | 1144905 | 755705 | 3309056 | very cobbly sandy loam | CBV-SL | | |
| 755705 | 1144905 | 755705 | 3309057 | extremely cobbly sandy loam | CBX-SL | | |
| 1507864 | 652474 | 1507864 | 1385860 | extremely cobbly loam | CBX-L | CBX-L | 0.25 |
| 1507864 | 652474 | 1507864 | 1385861 | extremely cobbly loam | CBX-L | | |
| 1507864 | 652474 | 1507864 | 1385862 | unweathered bedrock | UWB | | |
| 1507865 | 652477 | 1507865 | 1385863 | extremely cobbly loam | CBX-L | CBX-L | 0.25 |
| 1507865 | 652477 | 1507865 | 1385864 | extremely cobbly loam | CBX-L | | |
| 1507865 | 652477 | 1507865 | 1385865 | unweathered bedrock | UWB | | |
| 1507866 | 652480 | 1507866 | 1385866 | cobbly loam | CB-L | CB-L | 0.25 |
| 1507866 | 652480 | 1507866 | 1385867 | gravelly loam | GR-L | | |
| 1507866 | 652480 | 1507866 | 1385868 | indurated | IND | | |
| 1507866 | 652480 | 1507866 | 1385869 | extremely gravelly sand | GRX-S | | |
| 1507867 | 652481 | 1507867 | 3833006 | cobbly loam | CB-L | CB-L | 0.25 |
| 1507867 | 652481 | 1507867 | 3833007 | gravelly loam | GR-L | | |
| 1507867 | 652481 | 1507867 | 3833008 | indurated | IND | | |
| 1507867 | 652481 | 1507867 | 3833009 | extremely gravelly sand | GRX-S | | |
| 1507868 | 652482 | 1507868 | 1385874 | sandy loam | SL | SL | 0.4 |
| 1507868 | 652482 | 1507868 | 1385875 | sandy loam | SL | | |
| 1507868 | 652482 | 1507868 | 1385876 | loamy coarse sand | LCOS | | |
| 1507869 | 652483 | 1507869 | 1385877 | sandy loam | SL | SL | 0.4 |
| 1507869 | 652483 | 1507869 | 1385878 | sandy loam | SL | | |
| 1507869 | 652483 | 1507869 | 1385879 | loamy coarse sand | LCOS | | |
| 1507870 | 652484 | 1507870 | 1385880 | gravelly sandy loam | GR-SL | GR-SL | 0.4 |
| 1507870 | 652484 | 1507870 | 1385881 | gravelly coarse sandy loam | GR-COSL | | |
| 1507870 | 652484 | 1507870 | 1385882 | gravelly sandy loam | GR-SL | | |
| 1507870 | 652485 | 1507870 | 3839329 | gravelly loamy sand | GR-LS | GR-LS | 1.2 |
| 1507870 | 652485 | 1507870 | 3839330 | gravelly loamy coarse sand | GR-LCOS | | |
| 1507870 | 652485 | 1507870 | 3839331 | very gravelly coarse sand | GRV-COS | | |
| 1507871 | 652486 | 1507871 | 4352498 | very cobbly silt loam | CBV-SIL | SICL | 0.04 |
| 1507871 | 652486 | 1507871 | 1385887 | silty clay loam | SICL | | |
| 1507871 | 652486 | 1507871 | 4352499 | cobbly silty clay | CB-SIC | | |
| 1507871 | 652486 | 1507871 | 4352500 | silty clay | SIC | | |
| 1507871 | 652486 | 1507871 | 4352603 | silty clay | SIC | | |
| 1507871 | 652486 | 1507871 | 1385890 | gravelly silty clay loam | GR-SICL | | |
| 1507871 | 652487 | 1507871 | 1385891 | extremely cobbly loam | CBX-L | CBX-L | 0.25 |
| 1507871 | 652487 | 1507871 | 1385892 | extremely cobbly loam | CBX-L | | |
| 1507871 | 652487 | 1507871 | 1385893 | unweathered bedrock | UWB | | |
| 1507872 | 652489 | 1507872 | 3833596 | gravelly sandy loam | GR-SL | GR-SL | 0.4 |
| 1507872 | 652489 | 1507872 | 3833597 | gravelly sandy loam | GR-SL | | |
| 1507872 | 652489 | 1507872 | 3833598 | sandy loam | SL | | |
| 1507872 | 652489 | 1507872 | 3833599 | extremely gravelly loamy sand | GRX-LS | | |
| 1507872 | 652489 | 1507872 | 3833600 | very gravelly loamy coarse sand | GRV-LCOS | | |
| 1507872 | 652490 | 1507872 | 1385899 | sandy loam | SL | SL | 0.4 |
| 1507872 | 652490 | 1507872 | 1385900 | loamy sand | LS | | |
| 1507872 | 652490 | 1507872 | 1385901 | gravelly loamy sand | GR-LS | | |
| 1507874 | 652495 | 1507874 | 1385910 | very gravelly sandy loam | GRV-SL | GRV-SCL | 0.06 |
| 1507874 | 652495 | 1507874 | 1385911 | very gravelly sandy clay loam | GRV-SCL | | |
| 1507874 | 652495 | 1507874 | 1385912 | indurated | IND | | |
| 1507874 | 652495 | 1507874 | 1385913 | unweathered bedrock | UWB | | |

Golden Valley Ranch Technical Drainage Study

| cokey | | chkey | | Soil Texture | | Confining layer | XKSAT |
|---------|--------|---------|---------|--------------------------------------|----------|-----------------|-------|
| 1507875 | 652496 | 1507875 | 1385914 | very cobbly silty clay loam | CBV-SICL | C | 0.01 |
| 1507875 | 652496 | 1507875 | 1385915 | clay | C | | |
| 1507875 | 652496 | 1507875 | 1385916 | very gravelly loam | GRV-L | | |
| 1507876 | 652497 | 1507876 | 3833789 | very cobbly silty clay loam | CBV-SICL | C | 0.01 |
| 1507876 | 652497 | 1507876 | 3833790 | clay | C | | |
| 1507876 | 652497 | 1507876 | 3833791 | very gravelly loam | GRV-L | | |
| 1507876 | 652498 | 1507876 | 1385920 | very cobbly loam | CBV-L | SC | 0.02 |
| 1507876 | 652498 | 1507876 | 1385921 | sandy clay | SC | | |
| 1507876 | 652498 | 1507876 | 1385922 | weathered bedrock | WB | | |
| 1507876 | 652498 | 1507876 | 1385923 | unweathered bedrock | UWB | | |
| 1507877 | 652499 | 1507877 | 1385924 | sand | S | S | 4.6 |
| 1507877 | 652499 | 1507877 | 1385925 | very fine sand | VFS | | |
| 1507877 | 652499 | 1507877 | 1385926 | fine sand | FS | | |
| 1507877 | 652499 | 1507877 | 1385927 | very fine sand | VFS | | |
| 1507878 | 652500 | 1507878 | 1385928 | sandy loam | SL | SCL | 0.06 |
| 1507878 | 652500 | 1507878 | 1385929 | sandy clay loam | SCL | | |
| 1507878 | 652500 | 1507878 | 1385930 | coarse sandy loam | COSL | | |
| 1507879 | 652501 | 1507879 | 1385931 | extremely gravelly loam | GRX-L | GR-SCL | 0.04 |
| 1507879 | 652501 | 1507879 | 1385932 | gravelly sandy clay loam | GR-SCL | | |
| 1507879 | 652501 | 1507879 | 1385933 | gravelly clay loam | GR-CL | | |
| 1507879 | 652501 | 1507879 | 1385934 | indurated | IND | | |
| 1507880 | 652502 | 1507880 | 1385935 | extremely gravelly loam | GRX-L | GR-CL | 0.04 |
| 1507880 | 652502 | 1507880 | 1385936 | gravelly clay loam | GR-CL | | |
| 1507880 | 652502 | 1507880 | 1385937 | sandy clay loam | SCL | | |
| 1507880 | 652502 | 1507880 | 1385938 | very gravelly loam | GRV-L | | |
| 1507880 | 652502 | 1507880 | 1385939 | indurated | IND | | |
| 1507880 | 652502 | 1507880 | 1385940 | extremely gravelly loamy sand | GRX-LS | | |
| 1507881 | 652503 | 1507881 | 3834372 | extremely gravelly loam | GRX-L | SCL | 0.06 |
| 1507881 | 652503 | 1507881 | 3834373 | sandy clay loam | SCL | | |
| 1507881 | 652503 | 1507881 | 3834374 | sandy clay loam | SCL | | |
| 1507881 | 652503 | 1507881 | 3834375 | very gravelly loam | GRV-L | | |
| 1507881 | 652503 | 1507881 | 3834376 | indurated | IND | | |
| 1507881 | 652503 | 1507881 | 3834377 | extremely gravelly loamy sand | GRX-LS | | |
| 1507882 | 652504 | 1507882 | 3833990 | very gravelly loamy sand | GRV-LS | LS | 1.2 |
| 1507882 | 652504 | 1507882 | 3833991 | loamy sand | LS | | |
| 1507882 | 652504 | 1507882 | 3833992 | very gravelly coarse sand | GRV-COS | | |
| 1507883 | 652505 | 1507883 | 1385947 | very gravelly loamy sand | GRV-LS | LS | 1.2 |
| 1507883 | 652505 | 1507883 | 1385948 | loamy sand | LS | | |
| 1507883 | 652505 | 1507883 | 1385949 | very gravelly coarse sand | GRV-COS | | |
| 1507885 | 652508 | 1507885 | 1385952 | very gravelly coarse sand | GRV-COS | | |
| 1507885 | 652508 | 1507885 | 1385953 | extremely gravelly loamy coarse sand | GRX-LCOS | | |
| 1507886 | 652510 | 1507886 | 3834613 | gravelly sandy loam | GR-SL | GR-SL | 0.4 |
| 1507886 | 652510 | 1507886 | 3834614 | gravelly coarse sandy loam | GR-COSL | | |
| 1507886 | 652510 | 1507886 | 3834615 | indurated | IND | | |
| 1507886 | 652510 | 1507886 | 3834616 | extremely gravelly loamy coarse sand | GRX-LCOS | | |
| 1507887 | 652511 | 1507887 | 1385958 | gravelly sandy loam | GR-SL | GR-SL | 0.4 |
| 1507887 | 652511 | 1507887 | 1385959 | gravelly coarse sandy loam | GR-COSL | | |
| 1507887 | 652511 | 1507887 | 1385960 | indurated | IND | | |
| 1507887 | 652511 | 1507887 | 1385961 | extremely gravelly loamy coarse sand | GRX-LCOS | | |
| 1507888 | 652512 | 1507888 | 3834893 | very gravelly sandy loam | GRV-SL | GRV-SL | 0.4 |
| 1507888 | 652512 | 1507888 | 3834894 | very gravelly sandy loam | GRV-SL | | |

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| cokey | | chkey | | Soil Texture | | Confining layer | XKSAT |
|---------|--------|---------|---------|-------------------------------|---------|-----------------|-------|
| 1507888 | 652512 | 1507888 | 3834895 | weathered bedrock | WB | | |
| 1507888 | 652512 | 1507888 | 3834896 | unweathered bedrock | UWB | | |
| 1507889 | 652514 | 1507889 | 3834897 | very gravelly sandy loam | GRV-SL | GRV-SL | 0.4 |
| 1507889 | 652514 | 1507889 | 3834898 | very gravelly sandy loam | GRV-SL | | |
| 1507889 | 652514 | 1507889 | 3834899 | weathered bedrock | WB | | |
| 1507889 | 652514 | 1507889 | 3834900 | unweathered bedrock | UWB | | |
| 1507890 | 652516 | 1507890 | 3834901 | very gravelly sandy loam | GRV-SL | GRV-SL | 0.4 |
| 1507890 | 652516 | 1507890 | 3834902 | very gravelly sandy loam | GRV-SL | | |
| 1507890 | 652516 | 1507890 | 3834903 | weathered bedrock | WB | | |
| 1507890 | 652516 | 1507890 | 3834904 | unweathered bedrock | UWB | | |
| 1507890 | 652517 | 1507890 | 1385974 | extremely gravelly sandy loam | GRX-SL | GR-SC | 0.02 |
| 1507890 | 652517 | 1507890 | 1385975 | gravelly sandy clay | GR-SC | | |
| 1507890 | 652517 | 1507890 | 1385976 | sandy clay | SC | | |
| 1507890 | 652517 | 1507890 | 1385977 | weathered bedrock | WB | | |
| 1507890 | 652517 | 1507890 | 1385978 | unweathered bedrock | UWB | | |
| 1507891 | 652519 | 1507891 | 1385979 | very cobbly loam | CBV-L | GRV-CL | 0.04 |
| 1507891 | 652519 | 1507891 | 1385980 | very gravelly clay loam | GRV-CL | | |
| 1507891 | 652519 | 1507891 | 1385981 | indurated | IND | | |
| 1507891 | 652519 | 1507891 | 1385982 | unweathered bedrock | UWB | | |
| 1507893 | 652522 | 1507893 | 1385992 | extremely gravelly silt loam | GRX-SIL | GRV-L | 0.25 |
| 1507893 | 652522 | 1507893 | 1385993 | very gravelly loam | GRV-L | | |
| 1507893 | 652522 | 1507893 | 1385994 | very gravelly sandy clay loam | GRV-SCL | | |
| 1507893 | 652522 | 1507893 | 1385995 | very gravelly sandy loam | GRV-SL | | |
| 1507893 | 652523 | 1507893 | 1385996 | very gravelly sandy loam | GRV-SL | GRV-SL | 0.4 |
| 1507893 | 652523 | 1507893 | 1385997 | very gravelly sandy loam | GRV-SL | | |
| 1507893 | 652523 | 1507893 | 1385998 | very gravelly loamy sand | GRV-LS | | |
| 1507894 | 652524 | 1507894 | 1385999 | very stony loam | STV-L | STV-L | 0.25 |
| 1507894 | 652524 | 1507894 | 1386000 | very gravelly loam | GRV-L | | |
| 1507894 | 652524 | 1507894 | 1386001 | indurated | IND | | |
| 1507895 | 652525 | 1507895 | 1386003 | very stony loam | STV-L | STV-L | 0.25 |
| 1507895 | 652525 | 1507895 | 1386004 | very gravelly loam | GRV-L | | |
| 1507895 | 652525 | 1507895 | 1386005 | indurated | IND | | |
| 1507895 | 652525 | 1507895 | 1386006 | unweathered bedrock | UWB | | |
| 1507896 | 652526 | 1507896 | 3835256 | very stony loam | STV-L | STV-L | 0.25 |
| 1507896 | 652526 | 1507896 | 3835257 | very gravelly loam | GRV-L | | |
| 1507896 | 652526 | 1507896 | 3835258 | indurated | IND | | |
| 1507896 | 652526 | 1507896 | 3835259 | unweathered bedrock | UWB | | |
| 1507897 | 652527 | 1507897 | 3835334 | very gravelly sandy loam | GRV-SL | GRV-SCL | 0.06 |
| 1507897 | 652527 | 1507897 | 3835335 | very gravelly sandy clay loam | GRV-SCL | | |
| 1507897 | 652527 | 1507897 | 3835336 | clay | C | | |
| 1507897 | 652527 | 1507897 | 3835337 | clay loam | CL | | |
| 1507897 | 652528 | 1507897 | 1386015 | gravelly sandy loam | GR-SL | GR-SCL | 0.04 |
| 1507897 | 652528 | 1507897 | 1386016 | gravelly sandy clay loam | GR-SCL | | |
| 1507897 | 652528 | 1507897 | 1386017 | gravelly sandy loam | GR-SL | | |
| 1507898 | 652529 | 1507898 | 3835338 | very gravelly sandy loam | GRV-SL | GRV-SCL | 0.06 |
| 1507898 | 652529 | 1507898 | 3835339 | very gravelly sandy clay loam | GRV-SCL | | |
| 1507898 | 652529 | 1507898 | 3835340 | clay | C | | |
| 1507898 | 652529 | 1507898 | 3835341 | clay loam | CL | | |
| 1507898 | 652530 | 1507898 | 1386022 | gravelly sandy loam | GR-SL | GR-SCL | 0.04 |
| 1507898 | 652530 | 1507898 | 1386023 | gravelly sandy clay loam | GR-SCL | | |
| 1507898 | 652530 | 1507898 | 1386024 | gravelly sandy loam | GR-SL | | |

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| cokey | | chkey | | Soil Texture | | Confining layer | XKSAT |
|---------|--------|---------|---------|-------------------------------|---------|-----------------|-------|
| 1507899 | 652531 | 1507899 | 3835342 | very gravelly sandy loam | GRV-SL | GRV-SCL | 0.06 |
| 1507899 | 652531 | 1507899 | 3835343 | very gravelly sandy clay loam | GRV-SCL | | |
| 1507899 | 652531 | 1507899 | 3835344 | clay | C | | |
| 1507899 | 652531 | 1507899 | 3835345 | clay loam | CL | | |
| 1507899 | 652532 | 1507899 | 1386029 | gravelly sandy loam | GR-SL | GR-SCL | 0.04 |
| 1507899 | 652532 | 1507899 | 4346221 | gravelly sandy clay loam | GR-SCL | | |
| 1507899 | 652532 | 1507899 | 1386030 | gravelly sandy clay loam | GR-SCL | | |
| 1507899 | 652532 | 1507899 | 1386031 | gravelly sandy loam | GR-SL | | |
| 1507899 | 652532 | 1507899 | 4346223 | gravelly loamy sand | GR-LS | | |
| 1507899 | 652532 | 1507899 | 4346222 | gravelly loamy sand | GR-LS | | |
| 1507899 | 652532 | 1507899 | 1386032 | gravelly loamy sand | GR-LS | | |
| 1507900 | 652533 | 1507900 | 3835346 | very gravelly sandy loam | GRV-SL | GRV-SCL | 0.06 |
| 1507900 | 652533 | 1507900 | 3835347 | very gravelly sandy clay loam | GRV-SCL | | |
| 1507900 | 652533 | 1507900 | 3835348 | clay | C | | |
| 1507900 | 652533 | 1507900 | 3835349 | clay loam | CL | | |
| 1507900 | 652534 | 1507900 | 1386037 | gravelly sandy loam | GR-SL | GR-SCL | 0.04 |
| 1507900 | 652534 | 1507900 | 3840147 | gravelly sandy clay loam | GR-SCL | | |
| 1507900 | 652534 | 1507900 | 3840148 | gravelly sandy loam | GR-SL | | |
| 1507900 | 652534 | 1507900 | 3840149 | gravelly loamy sand | GR-LS | | |
| 1507901 | 652535 | 1507901 | 1386041 | gravelly sandy loam | GR-SL | SL | 0.4 |
| 1507901 | 652535 | 1507901 | 4704939 | sandy loam | SL | | |
| 1507901 | 652535 | 1507901 | 1386042 | sandy loam | SL | | |
| 1507901 | 652535 | 1507901 | 1386043 | gravelly sandy loam | GR-SL | | |
| 1507901 | 652536 | 1507901 | 1386044 | loamy sand | LS | LS | 1.2 |
| 1507901 | 652536 | 1507901 | 1386045 | loamy sand | LS | | |
| 1507901 | 652536 | 1507901 | 1386046 | gravelly coarse sandy loam | GR-COSL | | |
| 1507901 | 652536 | 1507901 | 1386047 | coarse sandy loam | COSL | | |
| 1507902 | 652537 | 1507902 | 1386048 | gravelly loam | GR-L | GR-L | 0.25 |
| 1507902 | 652537 | 1507902 | 1386049 | gravelly sandy loam | GR-SL | | |
| 1507902 | 652537 | 1507902 | 4704940 | sandy loam | SL | | |
| 1507902 | 652537 | 1507902 | 1386050 | sandy loam | SL | | |
| 1507902 | 652537 | 1507902 | 1386051 | gravelly sand | GR-S | | |
| 1507902 | 652538 | 1507902 | 1386052 | very gravelly loamy sand | GRV-LS | LS | 1.2 |
| 1507902 | 652538 | 1507902 | 1386053 | loamy sand | LS | | |
| 1507902 | 652538 | 1507902 | 1386054 | sandy loam | SL | | |
| 1507903 | 652539 | 1507903 | 1386055 | very cobbly loam | CBV-L | CBV-L | 0.25 |
| 1507903 | 652539 | 1507903 | 1386056 | extremely gravelly loam | GRX-L | | |
| 1507903 | 652539 | 1507903 | 1386057 | unweathered bedrock | UWB | | |
| 1507904 | 652542 | 1507904 | 1386058 | extremely cobbly loam | CBX-L | CBX-L | 0.25 |
| 1507904 | 652542 | 1507904 | 1386059 | extremely gravelly loam | GRX-L | | |
| 1507904 | 652542 | 1507904 | 1386060 | unweathered bedrock | UWB | | |
| 1507904 | 652544 | 1507904 | 1386061 | very stony clay loam | STV-CL | STV-CL | 0.04 |
| 1507904 | 652544 | 1507904 | 1386062 | cobbly clay loam | CB-CL | | |
| 1507904 | 652544 | 1507904 | 1386063 | silty clay | SIC | | |
| 1507904 | 652544 | 1507904 | 1386064 | very gravelly clay loam | GRV-CL | | |
| 1507905 | 652545 | 1507905 | 1386065 | very bouldery loam | BYV-L | BYV-L | 0.25 |
| 1507905 | 652545 | 1507905 | 1386066 | very gravelly loam | GRV-L | | |
| 1507905 | 652545 | 1507905 | 1386067 | weathered bedrock | WB | | |
| 1507907 | 652548 | 1507907 | 1386072 | fine sandy loam | FSL | GR-SCL | 0.04 |
| 1507907 | 652548 | 1507907 | 4370278 | gravelly sandy clay loam | GR-SCL | | |
| 1507907 | 652548 | 1507907 | 1386073 | gravelly sandy clay loam | GR-SCL | | |

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| cokey | | chkey | | Soil Texture | | Confining layer | XKSAT |
|---------|--------|---------|---------|---|--------------|-----------------|-------|
| 1507907 | 652548 | 1507907 | 1386074 | very gravelly coarse sandy loam | GRV-COSL | | |
| 1507908 | 652549 | 1507908 | 1386075 | silty clay | SIC | SR- SIC C | 0.01 |
| 1507908 | 652549 | 1507908 | 1386076 | stratified silty clay to clay | SR- SIC C | | |
| 1507908 | 652549 | 1507908 | 1386077 | stratified very fine sandy loam to silt loam | SR- VFSL SIL | | |
| 1507909 | 652550 | 1507909 | 1386078 | very fine sandy loam | VFSL | SR- SIL | 0.15 |
| 1507909 | 652550 | 1507909 | 1386079 | stratified silt loam | SR- SIL | | |
| 1507909 | 652550 | 1507909 | 1386080 | stratified very fine sandy loam | SR- VFSL | | |
| 1507909 | 652550 | 1507909 | 1386081 | stratified fine sand to loamy fine sand | SR- FS LFS | | |
| 1507909 | 652550 | 1507909 | 1386082 | stratified fine sandy loam to silty clay loam | SR- FSL SICL | | |
| 1507909 | 652551 | 1507909 | 1386083 | silty clay loam | SICL | SICL | 0.04 |
| 1507909 | 652551 | 1507909 | 1386084 | silty clay loam | SICL | | |
| 1507909 | 652551 | 1507909 | 1386085 | silt loam | SIL | | |
| 1507909 | 652551 | 1507909 | 1386086 | coarse sand | COS | | |
| 1507910 | 652552 | 1507910 | 3838328 | very fine sandy loam | VFSL | SR- SIL | 0.15 |
| 1507910 | 652552 | 1507910 | 3838329 | stratified silt loam | SR- SIL | | |
| 1507910 | 652552 | 1507910 | 3838330 | stratified very fine sandy loam | SR- VFSL | | |
| 1507910 | 652552 | 1507910 | 3838331 | stratified fine sand to loamy fine sand | SR- FS LFS | | |
| 1507910 | 652552 | 1507910 | 3838332 | stratified fine sandy loam to silty clay loam | SR- FSL SICL | | |
| 1507910 | 652553 | 1507910 | 3838413 | silty clay loam | SICL | SICL | 0.04 |
| 1507910 | 652553 | 1507910 | 4344221 | silty clay loam | SICL | | |
| 1507910 | 652553 | 1507910 | 3838414 | silty clay loam | SICL | | |
| 1507910 | 652553 | 1507910 | 3838415 | silt loam | SIL | | |
| 1507910 | 652553 | 1507910 | 3838416 | coarse sand | COS | | |
| 1507911 | 652554 | 1507911 | 1386096 | extremely gravelly sandy loam | GRX-SL | GRX-SL | 0.4 |
| 1507911 | 652554 | 1507911 | 1386097 | very gravelly sandy loam | GRV-SL | | |
| 1507911 | 652554 | 1507911 | 1386098 | unweathered bedrock | UWB | | |
| 1507913 | 652558 | 1507913 | 3838694 | gravelly sandy loam | GR-SL | GR-L | 0.25 |
| 1507913 | 652558 | 1507913 | 3838695 | gravelly loam | GR-L | | |
| 1507913 | 652558 | 1507913 | 3838696 | cemented | CEM | | |
| 1507913 | 652558 | 1507913 | 3838697 | extremely gravelly loamy coarse sand | GRX-LCOS | | |
| 1507914 | 652559 | 1507914 | 3838698 | gravelly sandy loam | GR-SL | GR-L | 0.25 |
| 1507914 | 652559 | 1507914 | 3838699 | gravelly loam | GR-L | | |
| 1507914 | 652559 | 1507914 | 3838700 | cemented | CEM | | |
| 1507914 | 652559 | 1507914 | 3838701 | extremely gravelly loamy coarse sand | GRX-LCOS | | |
| 1507916 | 652561 | 1507916 | 3838706 | gravelly sandy loam | GR-SL | GR-L | 0.25 |
| 1507916 | 652561 | 1507916 | 3838707 | gravelly loam | GR-L | | |
| 1507916 | 652561 | 1507916 | 3838708 | cemented | CEM | | |
| 1507916 | 652561 | 1507916 | 3838709 | extremely gravelly loamy coarse sand | GRX-LCOS | | |
| 1507919 | 652566 | 1507919 | 1386133 | very gravelly loam | GRV-L | GRV-L | 0.25 |
| 1507919 | 652566 | 1507919 | 3838786 | very gravelly sandy loam | GRV-SL | | |
| 1507919 | 652566 | 1507919 | 3838787 | extremely gravelly sandy loam | GRX-SL | | |
| 1507919 | 652566 | 1507919 | 3838788 | extremely gravelly coarse sandy loam | GRX-COSL | | |
| 1507919 | 652566 | 1507919 | 3838789 | extremely gravelly loamy sand | GRX-LS | | |
| 1507920 | 652567 | 1507920 | 3838782 | very gravelly sandy loam | GRV-SL | GRV-SL | 0.4 |
| 1507920 | 652567 | 1507920 | 1386139 | very gravelly sandy loam | GRV-SL | | |
| 1507920 | 652567 | 1507920 | 1386140 | extremely gravelly sandy loam | GRX-SL | | |
| 1507920 | 652567 | 1507920 | 1386141 | extremely gravelly coarse sandy loam | GRX-COSL | | |
| 1507920 | 652567 | 1507920 | 1386142 | extremely gravelly loamy sand | GRX-LS | | |
| 1507922 | 652571 | 1507922 | 1386152 | silty clay | SIC | C | 0.01 |
| 1507922 | 652571 | 1507922 | 1386153 | clay | C | | |
| 1507922 | 652571 | 1507922 | 1386154 | silty clay | SIC | | |

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| cokey | | chkey | | Soil Texture | | Confining layer | XKSAT |
|---------|--------|---------|---------|---------------------------------|----------|-----------------|-------|
| 1507922 | 652571 | 1507922 | 1386155 | very fine sandy loam | VFSL | | |
| 1507922 | 652571 | 1507922 | 1386156 | fine sand | FS | | |
| 1507923 | 652572 | 1507923 | 1386157 | very gravelly loam | GRV-L | GRV-L | 0.25 |
| 1507923 | 652572 | 1507923 | 4541325 | very gravelly sandy loam | GRV-SL | | |
| 1507923 | 652572 | 1507923 | 1386158 | very gravelly sandy loam | GRV-SL | | |
| 1507923 | 652572 | 1507923 | 1386159 | extremely gravelly sandy loam | GRX-SL | | |
| 1507923 | 652572 | 1507923 | 1386160 | very gravelly loamy sand | GRV-LS | | |
| 1507925 | 652574 | 1507925 | 1386165 | very gravelly sandy loam | GRV-SL | GRV-SL | 0.4 |
| 1507925 | 652574 | 1507925 | 1386166 | extremely gravelly sandy loam | GRX-SL | | |
| 1507925 | 652574 | 1507925 | 1386167 | unweathered bedrock | UWB | | |
| 1507926 | 652576 | 1507926 | 1386168 | extremely stony loam | STX-L | STX-L | 0.25 |
| 1507926 | 652576 | 1507926 | 1386169 | extremely cobbly loam | CBX-L | | |
| 1507926 | 652576 | 1507926 | 1386170 | unweathered bedrock | UWB | | |
| 1507927 | 652579 | 1507927 | 1386171 | silt loam | SIL | SIL | 0.15 |
| 1507927 | 652579 | 1507927 | 1386172 | silt loam | SIL | | |
| 1507927 | 652579 | 1507927 | 1386173 | clay | C | | |
| 1507927 | 652579 | 1507927 | 1386174 | sand | S | | |
| 1507930 | 652583 | 1507930 | 1386189 | gravelly sandy loam | GR-SL | SL | 0.4 |
| 1507930 | 652583 | 1507930 | 4707376 | sandy loam | SL | | |
| 1507930 | 652583 | 1507930 | 4707377 | sandy loam | SL | | |
| 1507930 | 652583 | 1507930 | 4707378 | sandy loam | SL | | |
| 1507930 | 652583 | 1507930 | 4707379 | gravelly sandy loam | GR-SL | | |
| 1507930 | 652583 | 1507930 | 4707380 | very gravelly sandy loam | GRV-SL | | |
| 1507930 | 652583 | 1507930 | 4707381 | very gravelly sandy loam | GRV-SL | | |
| 1507930 | 652584 | 1507930 | 1386193 | gravelly clay loam | GR-CL | GR-CL | 0.04 |
| 1507930 | 652584 | 1507930 | 1386194 | sandy loam | SL | | |
| 1507930 | 652584 | 1507930 | 1386195 | sandy clay loam | SCL | | |
| 1507930 | 652584 | 1507930 | 1386196 | gravelly coarse sandy loam | GR-COSL | | |
| 1507931 | 652585 | 1507931 | 1386197 | silty clay | SIC | SIC | 0.02 |
| 1507931 | 652585 | 1507931 | 1386198 | stratified silty clay | SR- SIC | | |
| 1507931 | 652585 | 1507931 | 1386199 | stratified fine sand | SR- FS | | |
| 1507932 | 652586 | 1507932 | 3839332 | gravelly loamy sand | GR-LS | GR-LS | 1.2 |
| 1507932 | 652586 | 1507932 | 3839333 | gravelly loamy coarse sand | GR-LCOS | | |
| 1507932 | 652586 | 1507932 | 3839334 | very gravelly coarse sand | GRV-COS | | |
| 1507932 | 652587 | 1507932 | 1386203 | coarse sandy loam | COSL | COSL | 0.4 |
| 1507932 | 652587 | 1507932 | 1386204 | loamy coarse sand | LCOS | | |
| 1507932 | 652587 | 1507932 | 1386205 | gravelly loamy coarse sand | GR-LCOS | | |
| 1507932 | 652587 | 1507932 | 1386206 | loamy coarse sand | LCOS | | |
| 1507932 | 652587 | 1507932 | 1386207 | very gravelly loamy coarse sand | GRV-LCOS | | |
| 1507933 | 652589 | 1507933 | 3839335 | gravelly loamy sand | GR-LS | GR-LS | 1.2 |
| 1507933 | 652589 | 1507933 | 3839336 | gravelly loamy coarse sand | GR-LCOS | | |
| 1507933 | 652589 | 1507933 | 3839337 | very gravelly coarse sand | GRV-COS | | |
| 1507933 | 652590 | 1507933 | 3840759 | coarse sandy loam | COSL | COSL | 0.4 |
| 1507933 | 652590 | 1507933 | 3840760 | loamy coarse sand | LCOS | | |
| 1507933 | 652590 | 1507933 | 3840761 | gravelly loamy coarse sand | GR-LCOS | | |
| 1507933 | 652590 | 1507933 | 3840762 | loamy coarse sand | LCOS | | |
| 1507933 | 652590 | 1507933 | 3840763 | very gravelly loamy coarse sand | GRV-LCOS | | |
| 1507934 | 652592 | 1507934 | 1386216 | sand | S | LS | 1.2 |
| 1507934 | 652592 | 1507934 | 1386217 | loamy sand | LS | | |
| 1507935 | 652593 | 1507935 | 1386218 | coarse sand | COS | LS | 1.2 |
| 1507935 | 652593 | 1507935 | 1386219 | loamy sand | LS | | |

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| cokey | | chkey | | Soil Texture | | Confining layer | XKSAT |
|---------|--------|---------|---------|----------------------------|---------|-----------------|-------|
| 1507935 | 652594 | 1507935 | 1386220 | fine sandy loam | FSL | GR-SIL | 0.15 |
| 1507935 | 652594 | 1507935 | 1386221 | gravelly silt loam | GR-SIL | | |
| 1507935 | 652594 | 1507935 | 1386222 | gravelly loamy fine sand | GR-LFS | | |
| 1507937 | 652597 | 1507937 | 1386227 | very gravelly loam | GRV-L | GRV-L | 0.25 |
| 1507937 | 652597 | 1507937 | 3839504 | very gravelly sandy loam | GRV-SL | | |
| 1507937 | 652597 | 1507937 | 3839505 | weathered bedrock | WB | | |
| 1507937 | 652597 | 1507937 | 3839506 | unweathered bedrock | UWB | | |
| 1507938 | 652599 | 1507938 | 1386231 | very stony loam | STV-L | STV-L | 0.25 |
| 1507938 | 652599 | 1507938 | 1386232 | very cobbly loam | CBV-L | | |
| 1507938 | 652599 | 1507938 | 1386233 | unweathered bedrock | UWB | | |
| 1507940 | 652602 | 1507940 | 3839655 | sandy loam | SL | SL | 0.4 |
| 1507940 | 652602 | 1507940 | 3839656 | fine sandy loam | FSL | | |
| 1507940 | 652602 | 1507940 | 3839657 | sandy loam | SL | | |
| 1507940 | 652602 | 1507940 | 3839658 | loam | L | | |
| 1507940 | 652602 | 1507940 | 3839659 | very gravelly sandy loam | GRV-SL | | |
| 1507941 | 652603 | 1507941 | 3839660 | sandy loam | SL | SL | 0.4 |
| 1507941 | 652603 | 1507941 | 3839661 | fine sandy loam | FSL | | |
| 1507941 | 652603 | 1507941 | 3839662 | sandy loam | SL | | |
| 1507941 | 652603 | 1507941 | 3839663 | loam | L | | |
| 1507941 | 652603 | 1507941 | 3839664 | very gravelly sandy loam | GRV-SL | | |
| 1507941 | 652604 | 1507941 | 1386249 | gravelly sandy loam | GR-SL | SL | 0.4 |
| 1507941 | 652604 | 1507941 | 4707403 | sandy loam | SL | | |
| 1507941 | 652604 | 1507941 | 4707404 | sandy loam | SL | | |
| 1507941 | 652604 | 1507941 | 4707405 | sandy loam | SL | | |
| 1507941 | 652604 | 1507941 | 4707406 | gravelly sandy loam | GR-SL | | |
| 1507941 | 652604 | 1507941 | 4707407 | very gravelly sandy loam | GRV-SL | | |
| 1507941 | 652604 | 1507941 | 4707408 | very gravelly sandy loam | GRV-SL | | |
| 1507943 | 652606 | 1507943 | 1386253 | very fine sandy loam | VFSL | VFSL | 0.4 |
| 1507943 | 652606 | 1507943 | 1386254 | very fine sandy loam | VFSL | | |
| 1507943 | 652606 | 1507943 | 1386255 | clay | C | | |
| 1507944 | 652607 | 1507944 | 1386256 | gravelly loamy sand | GR-LS | CL | 0.04 |
| 1507944 | 652607 | 1507944 | 1386257 | clay loam | CL | | |
| 1507944 | 652607 | 1507944 | 1386258 | clay | C | | |
| 1507944 | 652607 | 1507944 | 1386259 | cobbly clay loam | CB-CL | | |
| 1507944 | 652608 | 1507944 | 1386260 | gravelly sandy loam | GR-SL | SL | 0.4 |
| 1507944 | 652608 | 1507944 | 4707409 | sandy loam | SL | | |
| 1507944 | 652608 | 1507944 | 4707410 | sandy loam | SL | | |
| 1507944 | 652608 | 1507944 | 4707411 | sandy loam | SL | | |
| 1507944 | 652608 | 1507944 | 4707412 | gravelly sandy loam | GR-SL | | |
| 1507944 | 652608 | 1507944 | 4707413 | very gravelly sandy loam | GRV-SL | | |
| 1507944 | 652608 | 1507944 | 4707414 | very gravelly sandy loam | GRV-SL | | |
| 1507945 | 652609 | 1507945 | 4352633 | very cobbly loam | CBV-L | CL | 0.04 |
| 1507945 | 652609 | 1507945 | 3839721 | clay loam | CL | | |
| 1507945 | 652609 | 1507945 | 3839722 | clay | C | | |
| 1507945 | 652609 | 1507945 | 3839723 | cobbly clay loam | CB-CL | | |
| 1507945 | 652610 | 1507945 | 1386268 | gravelly sandy loam | GR-SL | SL | 0.4 |
| 1507945 | 652610 | 1507945 | 3840041 | sandy loam | SL | | |
| 1507945 | 652610 | 1507945 | 3840042 | sandy clay loam | SCL | | |
| 1507945 | 652610 | 1507945 | 3840043 | gravelly coarse sandy loam | GR-COSL | | |
| 1507946 | 652611 | 1507946 | 3839738 | very gravelly sandy loam | GRV-SL | CL | 0.04 |
| 1507946 | 652611 | 1507946 | 3839739 | clay loam | CL | | |

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| cokey | | chkey | | Soil Texture | | Confining layer | XKSAT |
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| 1507946 | 652611 | 1507946 | 3839740 | clay | C | | |
| 1507946 | 652611 | 1507946 | 3839741 | cobbly clay loam | CB-CL | | |
| 1507946 | 652612 | 1507946 | 1386276 | gravelly sandy loam | GR-SL | SL | 0.4 |
| 1507946 | 652612 | 1507946 | 3840050 | sandy loam | SL | | |
| 1507946 | 652612 | 1507946 | 3840051 | sandy clay loam | SCL | | |
| 1507946 | 652612 | 1507946 | 3840052 | gravelly coarse sandy loam | GR-COSL | | |
| 1507948 | 652616 | 1507948 | 1386293 | sandy loam | SL | SL | 0.4 |
| 1507948 | 652616 | 1507948 | 1386294 | coarse sandy loam | COSL | | |
| 1507948 | 652616 | 1507948 | 1386295 | gravelly loamy sand | GR-LS | | |
| 1507948 | 652616 | 1507948 | 1386296 | gravelly sand | GR-S | | |
| 1507948 | 652616 | 1507948 | 1386297 | gravelly sandy clay loam | GR-SCL | | |
| 1507949 | 652617 | 1507949 | 3839981 | sandy loam | SL | SL | 0.4 |
| 1507949 | 652617 | 1507949 | 3839982 | coarse sandy loam | COSL | | |
| 1507949 | 652617 | 1507949 | 3839983 | gravelly loamy sand | GR-LS | | |
| 1507949 | 652617 | 1507949 | 3839984 | gravelly sand | GR-S | | |
| 1507949 | 652617 | 1507949 | 3839985 | gravelly sandy clay loam | GR-SCL | | |
| 1507950 | 652618 | 1507950 | 1386303 | very cobbly loam | CBV-L | GR-CL | 0.04 |
| 1507950 | 652618 | 1507950 | 1386304 | gravelly clay loam | GR-CL | | |
| 1507950 | 652618 | 1507950 | 1386305 | gravelly clay | GR-C | | |
| 1507950 | 652618 | 1507950 | 1386306 | gravelly clay loam | GR-CL | | |
| 1507950 | 652618 | 1507950 | 1386307 | gravelly sandy loam | GR-SL | | |
| 1507950 | 652618 | 1507950 | 1386308 | very gravelly loamy sand | GRV-LS | | |
| 1507950 | 652619 | 1507950 | 1386309 | very cobbly loam | CBV-L | SC | 0.02 |
| 1507950 | 652619 | 1507950 | 3838642 | sandy clay | SC | | |
| 1507950 | 652619 | 1507950 | 3838643 | weathered bedrock | WB | | |
| 1507950 | 652619 | 1507950 | 3838644 | unweathered bedrock | UWB | | |
| 1507951 | 652620 | 1507951 | 1386313 | very gravelly loam | GRV-L | GRV-L | 0.25 |
| 1507951 | 652620 | 1507951 | 3840065 | sandy loam | SL | | |
| 1507951 | 652620 | 1507951 | 3840066 | sandy clay loam | SCL | | |
| 1507951 | 652620 | 1507951 | 3840067 | gravelly coarse sandy loam | GR-COSL | | |
| 1507952 | 652621 | 1507952 | 1386317 | very gravelly loam | GRV-L | GRV-L | 0.25 |
| 1507952 | 652621 | 1507952 | 3840074 | sandy loam | SL | | |
| 1507952 | 652621 | 1507952 | 3840075 | sandy clay loam | SCL | | |
| 1507952 | 652621 | 1507952 | 3840076 | gravelly coarse sandy loam | GR-COSL | | |
| 1507953 | 652622 | 1507953 | 1386321 | extremely gravelly sandy loam | GRX-SL | GRX-SL | 0.4 |
| 1507953 | 652622 | 1507953 | 1386322 | very gravelly sandy loam | GRV-SL | | |
| 1507953 | 652622 | 1507953 | 1386323 | weathered bedrock | WB | | |
| 1507953 | 652622 | 1507953 | 1386324 | unweathered bedrock | UWB | | |
| 1507955 | 652625 | 1507955 | 1386328 | extremely cobbly loam | CBX-L | CBX-L | 0.25 |
| 1507955 | 652625 | 1507955 | 3840110 | extremely gravelly loam | GRX-L | | |
| 1507955 | 652625 | 1507955 | 3840111 | unweathered bedrock | UWB | | |
| 1507957 | 652629 | 1507957 | 4039068 | extremely cobbly loam | CBX-L | CBX-L | 0.25 |
| 1507957 | 652629 | 1507957 | 3840119 | extremely gravelly loam | GRX-L | | |
| 1507957 | 652629 | 1507957 | 3840120 | unweathered bedrock | UWB | | |
| 1507958 | 652631 | 1507958 | 1386337 | extremely cobbly loam | CBX-L | CBX-L | 0.25 |
| 1507958 | 652631 | 1507958 | 3840123 | extremely gravelly loam | GRX-L | | |
| 1507958 | 652631 | 1507958 | 3840124 | unweathered bedrock | UWB | | |
| 1507959 | 652634 | 1507959 | 1386340 | extremely cobbly loam | CBX-L | CBX-L | 0.25 |
| 1507959 | 652634 | 1507959 | 3840130 | extremely gravelly loam | GRX-L | | |
| 1507959 | 652634 | 1507959 | 3840131 | unweathered bedrock | UWB | | |
| 1507960 | 652637 | 1507960 | 1386343 | gravelly loamy sand | GR-LS | GR-SCL | 0.04 |

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| cokey | | chkey | | Soil Texture | | Confining layer | XKSAT |
|---------|--------|---------|---------|------------------------------------|---------|-----------------|-------|
| 1507960 | 652637 | 1507960 | 3840156 | gravelly sandy clay loam | GR-SCL | | |
| 1507960 | 652637 | 1507960 | 3840157 | gravelly sandy loam | GR-SL | | |
| 1507960 | 652637 | 1507960 | 3840158 | gravelly loamy sand | GR-LS | | |
| 1507961 | 652638 | 1507961 | 1386347 | gravelly sandy loam | GR-SL | GR-SCL | 0.04 |
| 1507961 | 652638 | 1507961 | 3840165 | gravelly sandy clay loam | GR-SCL | | |
| 1507961 | 652638 | 1507961 | 3840166 | gravelly sandy loam | GR-SL | | |
| 1507961 | 652638 | 1507961 | 3840167 | gravelly loamy sand | GR-LS | | |
| 1507961 | 652639 | 1507961 | 1386351 | gravelly clay loam | GR-CL | GR-SCL | 0.04 |
| 1507961 | 652639 | 1507961 | 1386352 | gravelly sandy clay loam | GR-SCL | | |
| 1507961 | 652639 | 1507961 | 1386353 | gravelly sandy loam | GR-SL | | |
| 1507962 | 652640 | 1507962 | 1386354 | silt loam | SIL | SIL | 0.15 |
| 1507962 | 652640 | 1507962 | 1386355 | silt loam | SIL | | |
| 1507962 | 652640 | 1507962 | 1386356 | fine sand | FS | | |
| 1507963 | 652641 | 1507963 | 3840343 | very cobbly sandy loam | CBV-SL | CBV-SL | 0.15 |
| 1507963 | 652641 | 1507963 | 3840344 | very gravelly sandy loam | GRV-SL | | |
| 1507963 | 652641 | 1507963 | 3840345 | very gravelly loamy sand | GRV-LS | | |
| 1507964 | 652642 | 1507964 | 3840198 | very cobbly sandy loam | CBV-SL | CBV-SL | 0.15 |
| 1507964 | 652642 | 1507964 | 3840199 | very gravelly sandy loam | GRV-SL | | |
| 1507964 | 652642 | 1507964 | 3840200 | very gravelly sand | GRV-S | | |
| 1507966 | 652646 | 1507966 | 3838954 | extremely stony loam | STX-L | STX-L | 0.25 |
| 1507966 | 652646 | 1507966 | 3838955 | extremely cobbly loam | CBX-L | | |
| 1507966 | 652646 | 1507966 | 3838956 | unweathered bedrock | UWB | | |
| 1507968 | 652650 | 1507968 | 1386370 | extremely gravelly fine sandy loam | GRX-FSL | GRX-FSL | 0.4 |
| 1507968 | 652650 | 1507968 | 1386371 | very gravelly sandy loam | GRV-SL | | |
| 1507968 | 652650 | 1507968 | 1386372 | weathered bedrock | WB | | |
| 1507968 | 652650 | 1507968 | 1386373 | unweathered bedrock | UWB | | |
| 1507971 | 652657 | 1507971 | 1386389 | fine sand | FS | LS | 1.2 |
| 1507971 | 652657 | 1507971 | 1386390 | loamy sand | LS | | |
| 1507971 | 652658 | 1507971 | 1386391 | gravelly fine sand | GR-FS | FS | 4.6 |
| 1507971 | 652658 | 1507971 | 1386392 | fine sand | FS | | |
| 1507971 | 652658 | 1507971 | 1386393 | fine sand | FS | | |
| 1507972 | 652660 | 1507972 | 1386395 | sand | S | S | 4.6 |
| 1507972 | 652660 | 1507972 | 1386396 | sand | S | | |
| 1507972 | 652661 | 1507972 | 1386397 | fine sand | FS | | |
| 1507972 | 652661 | 1507972 | 1386398 | fine sand | FS | | |
| 1507972 | 652661 | 1507972 | 1386399 | fine sand | FS | | |
| 1507973 | 652663 | 1507973 | 1386401 | very gravelly loam | GRV-L | GRV-L | 0.25 |
| 1507973 | 652663 | 1507973 | 1386402 | gravelly loam | GR-L | | |
| 1507973 | 652663 | 1507973 | 1386403 | very gravelly sandy loam | GRV-SL | | |
| 1507974 | 652664 | 1507974 | 1386404 | very gravelly loam | GRV-L | | |
| 1507974 | 652664 | 1507974 | 3840396 | gravelly loam | GR-L | GR-L | 0.25 |
| 1507974 | 652664 | 1507974 | 3840397 | very gravelly sandy loam | GRV-SL | | |
| 1507975 | 652665 | 1507975 | 1386407 | very gravelly sandy loam | GRV-SL | | |
| 1507975 | 652665 | 1507975 | 3840400 | gravelly loam | GR-L | | |
| 1507975 | 652665 | 1507975 | 3840401 | very gravelly sandy loam | GRV-SL | | |
| 1507976 | 652666 | 1507976 | 1386410 | very gravelly sandy loam | GRV-SL | GR-L | 0.25 |
| 1507976 | 652666 | 1507976 | 3840404 | gravelly loam | GR-L | | |
| 1507976 | 652666 | 1507976 | 3840405 | very gravelly sandy loam | GRV-SL | | |
| 1507977 | 652667 | 1507977 | 1386413 | very gravelly loamy sand | GRV-LS | GR-L | 0.25 |
| 1507977 | 652667 | 1507977 | 3840408 | gravelly loam | GR-L | | |
| 1507977 | 652667 | 1507977 | 3840409 | very gravelly sandy loam | GRV-SL | | |

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| cokey | | chkey | | Soil Texture | | Confining layer | XKSAT |
|---------|--------|---------|---------|------------------------------------|----------|-----------------|-------|
| 1507977 | 652668 | 1507977 | 1386416 | very gravelly sandy loam | GRV-SL | CBX-SCL | 0.06 |
| 1507977 | 652668 | 1507977 | 1386417 | extremely cobbly sandy clay loam | CBX-SCL | | |
| 1507977 | 652668 | 1507977 | 1386418 | very gravelly sandy loam | GRV-SL | | |
| 1507977 | 652668 | 1507977 | 1386419 | very gravelly sandy clay loam | GRV-SCL | | |
| 1507977 | 652669 | 1507977 | 1386420 | very gravelly sandy loam | GRV-SL | GRV-SC | 0.02 |
| 1507977 | 652669 | 1507977 | 1386421 | very gravelly sandy clay | GRV-SC | | |
| 1507977 | 652669 | 1507977 | 1386422 | very gravelly sandy clay loam | GRV-SCL | | |
| 1507977 | 652669 | 1507977 | 1386423 | very gravelly sandy loam | GRV-SL | | |
| 1507978 | 652670 | 1507978 | 1386424 | very gravelly loamy sand | GRV-LS | GR-L | 0.25 |
| 1507978 | 652670 | 1507978 | 3840412 | gravelly loam | GR-L | | |
| 1507978 | 652670 | 1507978 | 3840413 | very gravelly sandy loam | GRV-SL | | |
| 1507978 | 652671 | 1507978 | 3840566 | very gravelly sandy loam | GRV-SL | CBX-SCL | 0.06 |
| 1507978 | 652671 | 1507978 | 3840567 | extremely cobbly sandy clay loam | CBX-SCL | | |
| 1507978 | 652671 | 1507978 | 3840568 | very gravelly sandy loam | GRV-SL | | |
| 1507978 | 652671 | 1507978 | 3840569 | very gravelly sandy clay loam | GRV-SCL | | |
| 1507978 | 652672 | 1507978 | 3838065 | very gravelly sandy loam | GRV-SL | GRV-SC | 0.02 |
| 1507978 | 652672 | 1507978 | 3838066 | very gravelly sandy clay | GRV-SC | | |
| 1507978 | 652672 | 1507978 | 3838067 | very gravelly sandy clay loam | GRV-SCL | | |
| 1507978 | 652672 | 1507978 | 3838068 | very gravelly sandy loam | GRV-SL | | |
| 1507980 | 652674 | 1507980 | 1386439 | extremely gravelly sandy loam | GRX-SL | GRX-SL | 0.4 |
| 1507980 | 652674 | 1507980 | 3840468 | very gravelly sandy loam | GRV-SL | | |
| 1507980 | 652674 | 1507980 | 3840469 | weathered bedrock | WB | | |
| 1507980 | 652674 | 1507980 | 3840470 | unweathered bedrock | UWB | | |
| 1507981 | 652676 | 1507981 | 1386443 | extremely cobbly loam | CBX-L | CBX-L | 0.25 |
| 1507981 | 652676 | 1507981 | 1386444 | very gravelly loam | GRV-L | | |
| 1507981 | 652676 | 1507981 | 1386445 | very gravelly loam | GRV-L | | |
| 1507981 | 652677 | 1507981 | 3841455 | very gravelly loamy sand | GRV-LS | GRV-SCL | 0.06 |
| 1507981 | 652677 | 1507981 | 3841456 | very gravelly sandy clay loam | GRV-SCL | | |
| 1507981 | 652677 | 1507981 | 3841457 | very gravelly sandy loam | GRV-SL | | |
| 1507981 | 652677 | 1507981 | 3841458 | gravelly loamy sand | GR-LS | | |
| 1507981 | 652677 | 1507981 | 3841459 | gravelly loam | GR-L | | |
| 1507981 | 652678 | 1507981 | 1386448 | very cobbly sandy loam | CBV-SL | CBV-SCL | 0.06 |
| 1507981 | 652678 | 1507981 | 1386449 | very cobbly sandy clay loam | CBV-SCL | | |
| 1507981 | 652678 | 1507981 | 1386450 | very cobbly clay | CBV-C | | |
| 1507981 | 652678 | 1507981 | 1386451 | extremely cobbly sandy clay | CBX-SC | | |
| 1507985 | 652682 | 1507985 | 3840677 | very cobbly loam | CBV-L | CBV-L | 0.25 |
| 1507985 | 652682 | 1507985 | 3840678 | extremely gravelly fine sandy loam | GRX-FSL | | |
| 1507985 | 652682 | 1507985 | 3840679 | indurated | IND | | |
| 1507985 | 652682 | 1507985 | 3840680 | unweathered bedrock | UWB | | |
| 1507986 | 652683 | 1507986 | 1386462 | extremely stony sandy loam | STX-SL | STX-SL | 0.4 |
| 1507986 | 652683 | 1507986 | 1386463 | very gravelly sandy loam | GRV-SL | | |
| 1507986 | 652683 | 1507986 | 1386464 | very gravelly coarse sandy loam | GRV-COSL | | |
| 1507986 | 652683 | 1507986 | 1386465 | indurated | IND | | |
| 1507987 | 652684 | 1507987 | 1386466 | very stony loam | STV-L | STV-L | 0.25 |
| 1507987 | 652684 | 1507987 | 3840703 | very gravelly sandy loam | GRV-SL | | |
| 1507987 | 652684 | 1507987 | 3840704 | very gravelly coarse sandy loam | GRV-COSL | | |
| 1507987 | 652684 | 1507987 | 3840705 | indurated | IND | | |
| 1507989 | 652686 | 1507989 | 3840717 | gravelly loamy sand | GR-LS | GR-SL | 0.4 |
| 1507989 | 652686 | 1507989 | 3840718 | gravelly sandy loam | GR-SL | | |
| 1507989 | 652686 | 1507989 | 3840719 | gravelly sandy clay | GR-SC | | |
| 1507989 | 652686 | 1507989 | 3840720 | gravelly sandy clay loam | GR-SCL | | |